CONSTRUCTION NEWS

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

NEW YORK.—The New York Public Service Commission has ordered the elimination of the grade crossing of the Delaware, Lackawanna & Western R. R. in the town of Sangerford, N. Y., directing that the Elmira, Corning & Waverly R. R. Co., now under construction, shall cross the Erie R. R. in the town of Corning in an undercrossing, and determined that Bridge St., in the town of Geddes, N. Y., shall cross the New York Central and the West Shore tracks on a steel structure.

PENNSYLVANIA.—Pittsburg & Lake Erie R. R.—According to press reports, agents of this company are buying a right-of-way between Elwood City and Koppel, the understanding being that a new line will be built along that route, to extend the main line to Franklin. J. A. Atwood, Pittsburg, Pa., is Ch. Engr.

GEORGIA.—Southern Ry.—The construction of 32 miles of second track between Atlanta and Gainesville, Ga., has been authorized. It is proposed to continue the use of the existing track from Armour, six miles north of Atlanta, to Crosskeys, a distance of five miles, as a single track gauntlet. Double track will be constructed from Crosskeys to Duluth, a distance of 15 miles. From Duluth to Suwanee, five miles, the existing track will be operated as a single track gauntlet, and 17 miles of double track will be built from Suwanee to Oakwood. D. W. Lum, Washington, D. C., is Ch. Engr.

✚ALABAMA.—Tuscaloosa Mineral R. R.—Contracts have been awarded for the first 18 miles of line from Tuscaloosa as follows: VANCE CONSTRUCTION CO., Tuscaloosa, Ala., one mile of line in the city of Tuscaloosa; W. L. WATSON, Tuscaloosa, Ala., from the Tuscaloosa city line to Hurricane Creek, six miles; DUNN & LALLANDE, Birmingham, from Hurricane Creek to Brookwood, eleven miles. Noted March 16.

TENNESSEE.—New Orleans, Mobile & Chicago R. R.—Arrangements are being made to build from Middleton to Jackson, Tenn., about 40 miles. Noted May 4.

KENTUCKY.—Chicago, Memphis & Gulf R. R.—Contracts will soon be let for an extension to Clinton, 15 miles. S. G. Latta, Dyersburg, Tenn., is Pres. and Gen. Mgr. Noted May 4.

✚KENTUCKY.—Louisville & Nashville R. R.—A contract involving $350,000 has been let to BUFFAT & NIPPER, Knoxville, Tenn., to build an extension of the Lexington & Eastern from Whitesburg, Ky., to Dryfolk, six miles. The work is mostly through rock.

✚OHIO.—Erie R. R.—Contracts have been let for second track construction as follows: Cincinnati division, Milton to Summit, six miles, and between Creston and I. M. Tower, nine miles, to BATES & RODGERS, Chicago; West Salem to Polk, five miles, to FERGUSON & EDMONDSON, Brookville, Pa.; Barberton to Sherman, three miles, and Tallmadge to Hills, three miles, to ROBERT GRACE CO., Cleveland.

MONTANA.—Chicago, Milwaukee & Puget Sound R. R.—A mortgage for $15,000,000 has been given by the Great Falls Townsite & Power Co. Of the loan $4,000,000 will be used to cover bonds issued for the development of the Rainbow Falls power site, now in operation, and $4,000,000 for the construction of a power plant at Great Falls. The remaining $7,000,000 will be used to electrify 120 miles of the St. Paul road to be built from Lewiston to Great Falls.

MISSOURI.—Missouri Pacific Ry.—Definite announcement has been made by the new president, B. F. Bush, that the lines of this company will be rehabilitated. This work will cover a period of a number of years. No plans have been made as to what work will first be taken up. The company has recently arranged for $25,000,000 to be obtained through 3-year notes.

TEXAS.—The railroad contracting firm of P. [illegible] Johnson & Co., St. Elmo, Ill., which constructed the St. Louis, Brownsville & Mexico R. R. and extensions of the Frisco system in Texas, is promoting the construction of a railroad from Bloomington to Victoria. It will practically be an extension of the branch line of the Frisco that runs from Bloomington to Port O'Connor. An old grade that was built a few years ago between Bloomington and Cuero, via Victoria, will be utilized by the proposed road. The people of Victoria have subscribed a bonus of $3[illegible] in aid of the proposed road.

TEXAS.—The Sugarland Ry.—This company has just amended its charter to provide for the construction of about 100 miles of additional track. The proposed extensions will run north and south. The road at present runs between Sugarland and Arcola, 14 mile. The northern extenion will run from Sugarland to Hempstead, about 65 miles, traversing the valley of the Brazos River. From Arcola a southern extension will be constructed to a connection with the St. Louis, Brownsville & Mexico R. R. at a point between Angleton and the Brazos River, a distance of about 35 miles. Many large sugar cane plantations are located along the route of the proposed extensions. W. T. Eldridge, Sugarland, Tex., is Pres.

TEXAS.—Kansas City, Mexico & Orient Ry. of Texas.—This company has just signed a contract with the people of Alpine whereby it agrees to begin the construction of that portion of its line between this town and Fort Stockton by July 1 and to complete the division within 18 months. A bonus of $25,000, free depot grounds and right-of-way through the town are donated the road. The distance between Fort Stockton and Alpine is about 75 miles. The road will soon be finished to the former place from San Angelo. It will cross the Southern Pacific at Alpine. From this place to the proposed crossing on the Rio Grande, six miles below Presidio del Norte, is about 85 miles. Considerable heavy construction work will be encountered in this last stretch of road. C. H. Webster, Sweetwater, Tex., is Ch. Engr.

✚ONTARIO.—Canadian Northern Ry.—The company has awarded contracts for the construction of its line from Toronto to Ottawa: A. SINCLAIR, completion of the section between Toronto and Belleville; J. P. MULLARKEY, contruction between 164 and 180 mile posts, and between 200 and 250 mile posts, including ballasting and tracklaying on 180th to 200th mile posts; E. MACKENZIE, 180th to 200th mile post. The contract of Mr. Mullarkey covering grading, fencing, tracklaying and ballasting. Sir Donald Mann, Vice-Pres., announces that work will commence at once and the whole line will be completed and in operation in one year, while the section from Toronto to Belleville will be ready for operation in September.

ELECTRIC RAILWAYS.

(✚Denotes a contract awarded.)

BUFFALO, N. Y.—The International Traction Co. has been granted a franchise to extend its tracks on Abbott Road, between Cazenovia St. and the city line in Buffalo. Thomas Penney, 820 Ellicott Square, Buffalo, is Pres.

NIAGARA FALLS, N. Y.—Franchises have been applied for by the Niagara Frontier Ry. Co. to build a railway from Niagara Falls to Ft. Erie. George H. Pettit and William C. Perkins represented the company.

WATERTOWN, N. Y.—The Black River Traction Co., has received a franchise, it is stated, to lay its tracks on Washington St.

WHITE PLAINS, N. Y.—A franchise has been granted to the Hudson River & Eastern Traction Co. to extend its line in White Plains. O. G. Bennett, Ossining, is Pres.

CARLISLE, PA.—The Cumberland Ry. Co. has received a franchise to build a line from Carlisle to Newville. W. F. Pascoe, Carlisle, is Gen. Mgr.

ELIZABETHTOWN, PA.—The Middletown & Elizabethtown Ry. Co. has been organized to build a road from Elizabethtown, Lancaster County, to Middletown, Dauphin County. A mortgage for $350,000 has been placed on record at Lancaster. At Elizabethtown the road will connect with the line of the Conestoga Traction Co., and at Middletown connection will be made with the line to Harrisburg.

SUMMITHILL, PA.—The Lehigh Coal & Navigation Co. has secured a charter for the construction of an electric railway from Summithill to Mauch Chunk.

PHILADELPHIA, PA.—The Southwestern St. Ry. has been taken over by a new corporation known as the Philadelphia St. Ry. The new company will re-equip the railway, enlarge its power-house, rehabilitate the track and overhead construction. The incorporators are Edwin Wolf, Louis Wolf and Benjamin Wolf, of Wolf Bros., Bankers; Isaac H. Silverman, William A. Stern and Alvin W. From, of Stern & Silverman, Elec. Engrs., and Charles F. Wagner, Jr. The officers are Isaac H. Silverman, Pres.; Benjamin Wolf, Treas., and Alvin W. From, Secy.

MIDDLETOWN, PA.—Elizabethtown will be connected with this city by a line for which $350,000 has been loaned to the Middletown & Elizabethtown St. Ry. Co. Dr. H. K. Blough, Elizabethtown, is Pres.; F. H. Alleman, Summit, N. J., is Secy.

GASTONIA, N. C.—The North Carolina Interurban R. R. Co. has filed articles of incorporation and proposes to build a line from Gastonia to Asheville by way of Rutherfordton, where the office of the company is located. Surveys have been made.

CHARLOTTE, N. C.—The North Carolina Interurban Ry. Co. has been chartered to build an electric railway from any point on the Atlantic seaboard to Asheville and to connect Charlotte, Gastonia, Dallas, Cherryville, Shelby, Boiling Springs, Rutherfordton, Chimney Rock, Fairview and Asheville, about 125 miles. This company was formerly known as the Isothermal Traction Co., Rutherfordton. John C. Mills, L. L. Jenkins, Geo. L. McKay, Rutherfordton, and others are the incorporators.

ALBANY, GA.—A franchise has been granted by the City Council granting a group of local capitalists the right to build a street railway in this city. C. W. Rawson is interested.

ALABAMA CITY, ALA.—A plan to build a line connecting Attalla, Gadsden & Alabama City, is being promoted. A franchise has been granted to B. T. Head and associates to lay tracks through this city.

NASHVILLE, TENN.—The Nashville-Gallatin Interurban Ry. Co., will begin next month to build a 30-mile railway between Gallatin and Nashville. H. H. Mayberry, Franklin, Tenn., is Pres. Noted Jan. 26.

LEXINGTON, KY.—The Kentucky Traction & Terminal Co. has been formed by the consolidation of the Lexington Ry. Co., the Bluegrass Traction Co. and the Central Kentucky Traction Co. Extensions and new lines to adjacent towns and cities are contemplated. The right to construct a line to Winchester, and through Winchester to Mt. Sterling; a line to Richmond; to extend the present Frankfort line to Lawrenceburg, Shelbyville and Owenton; the Paris line to Cynthiana; the Nicholasville line to Lancaster and through there to Danville and from there to Harrodsburg are included in the privileges claimed under the new charter. Percy M. Chandler, Howard A. Leeb, Gustavus W. Cook, John A. McCarthy, John Blair MacAfee, F. W. Bacon, Richard C. Stoll, B. M. Arnett, J. R. Downing, J. N. Camden, Charles E. Hoge, Charles N. Manning, J. E. Bassett, Desha Breckinridge and Levering Jones are interested.

KOKOMO, IND.—The Kokomo, Marion & Western Traction Co. is asking for bids for the construction of a line between Kokomo and Terre Haute. T. C. McReynolds, Kokomo, is Mgr.

VINCENNES, IND.—Three traction companies—the Vincennes, Washington & Eastern, the Vincennes Interstate and the Vincennes North & South Traction Companies are each ready to let contracts for the construction of lines and bridges. Funds have been voted for this purpose.

GRAND RAPIDS, WIS.—An interurban system is contemplated by the Chicago & Wisconsin Valley Co., which will connect Rothschild with the Grand Rapids electric line now operating along the west banks of the Wisconsin River as far as Nekoosa.

PERRY, IOWA.—B. C. Dilenbeck is promoting a railway system in this city. A franchise has been placed before the Commercial Club for a formal reading and to be then submitted to the citizens.

HASTINGS, MINN.—The Interurban Construction Co. has filed articles of incorporation with the Secretary of State and will build a line from Hastings to Cannon Falls and Pine Island, ending at Rochester. Edward Peldhauser, St. Paul, is one of the incorporators.

CHERRYVALE, KAN.—Preliminary surveys are being made by F. S. Hathaway, Engr. in Charge of the proposed interurban railway connecting Cherryvale and Parsons going by way of Mortimer and Dennis. D. H. Siggins is Supt.

CHAMBERLAIN, S. DAK.—The South Dakota Interurban Ry. which has projected a railway from Chamberlain to Sioux City by way of Bijou Hills, is expecting to start construction work within a short time, according to W. E. Miller, Academy, S. Dak., who is Pres.

NEWTON, ARK.—The Arkansas Valley Interurban Ry. Co., has been granted a franchise to build a line through Newton. Sedgwick, Newton and Halstead will be connected by this line. O. A. Boyle, Wichita, Kan., is Gen. Mgr.

LITTLE ROCK, ARK.—The Little Rock, Pine Bluff & Eastern Traction Co. has filed articles of incorporation for the purpose of building a railway between Little Rock and Pine Bluff, touching at several intermediate points following the general course of the St. Louis Southwestern R. R. on the east side of the Arkansas River. Power and light will be furnished to towns along their route. Coburn C. Kavanaugh is Pres., T. M. Mehaffy is Secy., and E. W. Jackson is Treas.

BOGATA, TEX.—The Paris & Mount Pleasant Ry. Co. has recently secured a loan of $300,000 bonds to be expended for the construction of a railway from this city to Mount Pleasant.

BROWNWOOD, TEX.—A plan to extend the Brownwood North & South R. R. Co. to Rising Star is under consideration.

GREENVILLE TEX. — The Mineral Heights Traction Co. has been organized for the purpose of constructing an interurban railway between Greenville and Mineral Heigths, about two miles. The officers are. A. R. Nicholson, Pres.; J. E. Morris, Vice-Pres., J. W. Castleberry, Secy., and A. F. De Fee, Treas.

PALESTINE, TEX. — Tucker Royall and associates are promoting the construction of an electric street railway system here.

HOUSTON, TEX.—An interurban line that will connect Houston, La Porte, and Sylvan Beach, is being promoted. W. E. Uhl, Stevens Point, Wis., J. S. Tauberg, Eau Claire, Wis., and B. B. Park, Stevens Point, Wis., have recently been at Houston inspecting preliminary surveys. It is understood that the Uhl Construction Co., Stevens Point, has the contract for building the new line for the Houston Bay Shore Traction Co.

SAN BENITO, TEX.—It is stated by S. A. Robertson, San Benito, promoter of the San Benito Interurban Ry. Co., that the line owned by this company will be extended to Santa Maria and that an additional 30 miles of main track will be constructed upon the land of the San Benito Land & Water Co.

DENVER, COLO.—The Colorado Interurban Co. has authorized a bond issue of $6,000,000, of which $3,500,000 will be issued at present to build an interurban railway from Denver to Greeley. Irving Hale, Mgr. of the General Electric Co., is Pres.; Eben N. Reaser is 1st Vice-Pres.; D. E. Young is 2d Vice-Pres.; O. S. Storrs is Secy.; E. E. Armour is Treas. The directors are as follows: James W. Owen, Dr. Clarkson N. Guyer, James Leonard, William H. Davis and Emile F. Riethmann.

BOISE, IDAHO.—Articles of incorporation have been filed by the Boise Council Landore R. R. Co. Preliminary surveys have been made through Adams County. E. W. Bowman, John M. Haines of the W. E. Pierce real estate firm, are the incorporators. J. D. S. Manville, Harry Wyman and Geo. Huebener, all of Boise, are interested.

FRESNO, CAL.—Application for a franchise to operate a railroad in the city streets will be made within 30 days by the Fresno, Coalinga & Tidewater R. R. Co.

✚GLENDALE, CAL.—The contract for building an extension from Arden Ave., Glendale, to the city limits of Burbank, about four miles, has been awarded to ROBERT SHERER & CO., 650 Pacific Electric Bldg., Los Angeles, to be built by the Pacific Electric Ry. Co., of which George E. Pillsbury, Sixth and Main Sts., is Ch. Engr. Noted May 18.

RIVERSIDE, CAL.—A franchise has been applied for by the Pacific Electric Ry. Co., to build a railway between the city limits of Riverside and the Orange County border line. George E. Pillsbury, Sixth and Main Sts., is Chn. Engr.

SAN JOSE, CAL.—The Peninsular Ry. Co. is planning to build a 15-mile suburban loop on the Western side of the Santa Clara Valley touching San Jose, Santa Clara and Hacienda. The franchise has not been applied for as yet. F. E. Chapin, 143 South Market St., San Jose, is Gen. Mgr. Charles A. Nones, Pres. of the New Almaden Quick Silver Mining Co.; J. L. Mosher, James Cooney, R. Baker, H. B. Kooser, S. Pfeiffer, Henry Schumann, W. C. Columbet, H. N. Holthouse and W. D. Greenwald, are interested.

BERKELEY, CAL.—The Oakland Traction Co. has been granted a franchise to extend its Euclid Ave. line north to the hills and to extend its Bay View Ave. line east to Euclid Ave. M. F. Kelly, 710 San Pablo Ave., Oakland, is Gen. Mgr.

MODESTO, CAL.—The San Joaquin Valley Electric Ry. Co. has received a franchise from the Trustees to build a railway from Modesto to Stockton.

OAKLAND, CAL.—The Oakland Traction Co. has been granted a franchise from the City Council to extend its lines from E. 16th St. to Ygnacio Ave., and for a line along Market St., from San Pablo Ave. to 55th St. W. F. Kelly, 710 San Pablo Ave., Oakland, is Gen. Mgr.

✚SAN FRANCISCO, CAL.—The Board of Public Works has awarded a contract to the PENNSYLVANIA STEEL CO., for special steel work for the construction of the Geary St. municipal electric line, at $45,713. The STANDARD UNDERGROUND CABLE CO., Pittsburg, Pa., will furnish 20 reels of copper wire.

HAMILTON, ONT.—The Dominion Power & Transmission Co. is making a survey for an electric railway line from Hamilton to Galt. The tracks of the present Brantford & Hamilton Electric Ry. will be used as far as Langford. A loop will be constructed. William C. Hawkins, Terminal Bldg., Hamilton, is Ch. Engr.

MEDICINE HAT, ALTA.—The Alberta Electric R. R. Co. contemplates the construction of a road between Medicine Hat and Banff.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

✚BOSTON, MASS.—A contract has been awarded to the EDISON ELECTRIC & ILLUMINATING CO. for 2,000 lights. The contract price is $22.31 per lamp. L. K. Rourke is Comr. Pub. Wks.

GREENFIELD, MASS.—Preliminary plans for two dams on the Deerfield River, east of the Gardner Falls power plant of the Greenfield Electric Light & Power Co. have been filed by Chace & Harriman, who have been securing water rights. The plans call for two concrete dams, one about one mile east of the Gardner Falls dam, and the other just west of Dragon Brook.

✚HOLYOKE, MASS.—CASPER RANGER, of this city, has secured the contract for the erection of a new power-house and engine-room at the plant of the Crocker division of the American Writing Paper Co. on Canal St. It will be built of brick, 40 × 60 ft., two stories high. The WALSH STEAM BOILER WORKS has the contract for the steel work.

COSCOB, CONN.—The New York, New Haven & Hartford R. R. will enlarge its power house here to double its capacity. Four 4,000-KW. generators will be installed.

✚HARTFORD, CONN.—The contract for the construction of a gas holder has been awarded by the Hartford City Gas Light Co. to R. D. WOOD & CO., Philadelphia, Pa.

✚WATERBURY, CONN.—Contracts for the erection of a power-house for the Mattatuck Mfg. Co. on East Main St. have been awarded as follows: Concrete foundations, YOUNG CONCRETE & CONSTRUCTION CO.; mason work, GEORGE S. CHATFIELD CO.; carpenter work, TRACY BROS. CO., all of Waterbury. The building will be of brick, 24 × 44 ft. E. E. Benedict, 51 Leavenworth St., is Arch.

NEW YORK, N. Y.—Bids will be received by C. B. J. Snyder, Park Ave. and 59th St., Supt. School Bldgs., until May 29 for repairs, alterations and additions to the electric equipment in Schools Nos. 4, 20, 24, 31, 32, 34 and 35, Boro. Bronx, and Schools Nos. 39 and 103, Boro. Manhattan.

✚YONKERS, N. Y.—The Board of Education, of which John H. Claxton is Secy., has awarded to F. G. SANFORD & CO. the contract for installing a lighting and ventilating plant in the addition to School No. 5 at $4,302, and $4,341 for No. 8.

PHILADELPHIA, PA.—Bids will be received by Lt.-Col. Chauncey B. Baker, Quartermaster's Office, 26th St. and Gray's Ferry Road, Philadelphia, until 11 a. m., June 9, for furnishing and installing one 200-HP. water-tube boiler. Blanks for proposals and full information may be had at the office.

ANNAPOLIS, MD.—Bids will be received at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until 10 a. m., May 31, to furnish at Naval Academy, Annapolis, a quantity of electrical conductor, arc lamp posts, steel conduit, outlet and switch boxes, vitrobestos pipe covering, steel or wrought-iron pipe, gate valves, cast-iron tees. Applications should refer to Schedule 3581. Blanks and further information may be had at the navy pay office, Baltimore, Md., or at the Bureau. T. J. Cowie, Paymaster-General, U. S. N.

FORT HOWARD, MD.—Bids will be received at the office of the Constructing Quartermaster, Fort Howard, until 11.30 a. m., June 12, for constructing electric light plant and electric lighting system. Lieut. T. A. Terry is Const. Q. M., U. S. A.

RICHMOND, VA.—Electric pumps to be connected with standpipe service will be installed at the old pumphouse by the city, to cost about $16,000. Charles E. Bolling is City Engr.

✚RICHMOND, VA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded a contract for wiring the Richmond post-office to ATLANTIC ELECTRIC CO., INC., Norfolk, Va., at $7,924.

RADFORD, VA.—The Dominion Power Co., Radford, has been chartered by the State Corporation Commission. The company proposes to operate water, electric, steam and other power plants at that place. The officers are J. J. Mott, Pres., Statesville, N. C.; J. Edgar Walters, Secy.-Treas., Radford, Va., and Marion Butler, Elliott, N. C.; Henry K. McHarg, Jr., Radford, and T. S. Mott, Hickory, N. C., are the incorporators.

DOUBLE SHOALS, N. C.—The Double Shoals Cotton Mills are planning to improve their water-power plant. James Leffel & Co., Springfield, Ohio, are Engrs.-in-Charge.

DECATUR, ALA.—The electrical power of the New Decatur shops of the Louisville & Nashville R. R. Co. in New Decatur will be doubled, according to a statement just given out by Mr. Sterns, mechanical engineer for the railroad company, with headquarters in Louisville, Ky.

GALLATIN, TENN.—No contract was let on May 5 for supplying the city with one Corliss engine, two 100-KW., 3-phase, engine-type generators, two marble switchboards and two electrically-operated pumps of 500 gals. capacity per minute. Specifications will be changed and new bids called for. E. L. Anderson is Chn. of Water and Light Comn.

LEXINGTON, KY.—The Kentucky Traction & Terminal Co. has plans for a powerhouse to furnish power for operating its lines. The estimated cost is $500,000. This company has recently been formed and will take over all the electric lines in and around Lexington.

BARBERTON, OHIO.—One bid was received by the municipality of Barberton for lighting the streets of the city submitted by the Sun Vapor Street Light Co., Canton, at $19.81 a light each year.

✚FRANKLIN, OHIO.—The contract for building a power house and adjacent buildings has been awarded to W. S. ROOF CO., Middletown, by the Franklin Paper Coated Co.

Advance contracts have been secured already, sufficient to run the plant for several months after it begins business. The officers of the company are: John J. Maloney, Pres.; J. J. Fisher, Vice Pres., and Wallace Symmes, Secy. and Treas.

GREENSPRING, OHIO.—D. M. Scott has been granted a franchise for 25 years to operate an electric light and power plant.

PLEASANT CITY, OHIO.—The Midland Power & Traction Co. will extend its lines to Pleasant City in the near future. W. A. Gibbs, Cambridge, Ohio, is Gen. Mgr.

✚MADISON, IND.—The contract for the plumbing and heating system to be installed in the new High School building has been awarded to J. J. QUINN, Madison. There were five other bidders as follows: J. J. Quinn, $19,513; Carson & Payson, Danville, Ill., $19,582; Lane Pike, Lafayette, $20,724; Johnson, Indianapolis, $29,000.

TERRE HAUTE, IND.—The Citizens' Heating Co. is preparing to apply for a heating plant to be located on Tippecanoe St.; also the laying of mains in Tippecanoe St.

DETROIT MICH.—See item under Manufacturing Plants.

ROCK ISLAND, ILL.—Bids will be received at the office of the Commanding Officer, Rock Island Arsenal, Ill., until June 6, under circular 302, for furnishing induction motor, polar wound, slip-ring type. For further information address the commanding officer, Rock Island Arsenal, Ill.

✚OCONOMOWOC, WIS.—The contract for building a concrete dam and power plant to be erected on the Okauchee Lake property of Henry Schoelkopf, of Milwaukee, has been awarded to J. NELSON & CO. The dam is estimated to cost $25,000.

FAITH, S. DAK.—Mills & Harrington will construct a 100-KW. electric light, heat and power plant at an approximate cost of $10,000. Steam equipment is needed. M. E. Brookman, Eagle Butte, S. Dak., is Engr.

FULTON, MO.—Bids will be received by John H. McDonald, Secy. Bd. Mgrs. State Hospital No. 1, until 4 p. m., June 13, for the general work of remodeling heating system, consisting of furnishings and installing new radiators and necessary piping, etc. Plans and specifications may be had at the office of Charles Strong, Ch. Engr., at the hospital.

ST. LOUIS, MO.—The Arcadia County Club will construct a dam and hydro-electric plant to cost $50,000. Dixon-Smith Engineering Co., 818-820 Wright Bldg., St. Louis, Mo., are the Consulting Engrs. Henry C. Muskoff is the Landscape Engr.

✚CHILLICOTHE, MO.—Bids were opened, May 8, for constructing an electric light plant from plans of Fuller-Coult Co., of St. Louis, and contracts have been awarded as follows: To J. E. MEEKS, Chillicothe, for Section 1, machinery and building foundations, $2,015, and Section 4, boilers and equipment, $5,274; To JOHN GIER, Chillicothe, for Section 2, power house building, $5,740; to Metal Concrete Chimney Co., St. Louis, for Section 3, brick and concrete chimney, $1,440; and to the SQUIRES ELECTRIC CONSTRUCTION CO., Kansas City, for Sections 5, 6, 7, 8, 9 and 10, to consist of pipe work and steam specials; two 4-valve steam engines, 160-320-HP.; two generator exciters; regulators and erection, 400 KVA.; pole line, complete; 1,000 ft. 8-in. deep well for water supply, and 5,000-gallon tower and tank; lump sum of $30,405. Noted on April 27.

NEW BRAUNFELS, TEX.—The City Council has adopted the preliminary plans for the W. K. Palmer Co., Kansas City, Mo., for the construction of a large reinforced-concrete dam across the Guadelupe River near here. The proposed dam will be for the purpose of affording the initial power for operating a large hydro-electric plant which the city will install.

LAS CRUCES, N. MEX.—Bids were received on May 15 at the office of the U. S. Reclamation Service, Los Angeles, Cal., for furnishing a steam power plant for Rio Grande Project, New Mexico-Texas as follows: General Electric Co., Schenectady, N. Y., No. 1, $18,200, No. 1a, $9,100, No. 2, $2,200, No. 3 $1,590, No. 3a $280, No. 10 $12; W. E. Anderson, El Paso, Tex., No. 4 $8,500, No. 4a $4,250, No. 5 $8,600, No. 5a $4,300, No. 6 $9,996, No. 6a $3,332, No. 7 $641.30, No. 8 $759.60, No. 9 $12,940, No. 9a $3,590; M. L. Bayard & Co., Philadelphia, Pa., No. 1 $21,000, No. 1a $10,500, No. 2 $2,840, No. 3 $1,920, No. 3a $240, No. 5 $6,825, No. 5a $3,400, No. 6 $12,800, No. 6a $3,600, No. 7 $370, No. 8 $670, No. 9 $16,000, No. 9a $3,200, No. 10 $12; No. 11 $12, No. 12 $12; Henry R. Worthington, 115 Broadway, New York, N. Y., No. 4 $10,118, No. 4a $5,029, No. 5 $9,556, No. 5a $4,778, No. 7 $845, No. 8 $400, No. 11; $15; Allis-Chalmers Co., Milwaukee, Wis., No. 1 $18,400, No. 1a $9,200, No. 3 $1,730, No. 3a $325, No. 10 $10; Charles C. Moore & Co., San Francisco, Cal., No. 1 $19,600, No. 1a $9,800, No. 2 $2,200, No. 3 $1,670, No. 3a $300, No. 4 $9,398, No. 4a $4,685, No. 5 $9,500, No. 5a $4,737, No. 6 $11,100, No. 6a $3,855, No. 7 $740, No. 8 $720, No. 9 $25,500, No. 9a $10,900, No. 11 $13, No. 12 $13; Fort Wayne Electric Co., Fort Wayne, Ind., No. 3 $1,808, No. 3a $283; Walker Electric Co., Philadelphia, Pa., No. 3 $2,287, No. 3a $430.

✚BOISE, IDAHO.—The Secretary of the Interior has awarded the following contracts for furnishing electrical apparatus for use in building the Arrow Rock dam, Boise irrigation project, Idaho: The ALLIS-CHALMERS CO., Milwaukee, Wis., three alternators, four auxiliary transformers, and air compressor; contract price, $19,450. WESTINGHOUSE ELECTRIC & MFG. CO., East Pittsburg, Pa., three air-blast transformers and two blowers; contract price, $5,880. GENERAL ELECTRIC CO., Schenectady, N. Y., switchboard, 24 disc switches, six electric circuit breakers, supplies, and two lightning arresters; contract price, $6,096. Noted under Contract Prices, May 11.

✚OGDEN, UTAH.—The Merchants' Light & Power Co., which has recently been granted franchises for lighting and power and which has also obtained the municipal arc lighting contract, has awarded the general contract for the complete installation and construction of this system to the FALKENAU ELECTRICAL CONSTRUCTION CO., 617-620 Stock Exchange Bldg., Chicago, Ill. H. A. Strauss, Consult. Engr. of the Falkenau Co., has prepared plans and specifications for this system and is now making the necessary purchases. Noted March 30.

EUGENE, ORE.—The Board of Water Supply has asked the City Council to submit to the citizens the proposition of improving the municipal electric plant, which will necessitate a $57,000 bond issue.

SALEM, ORE.—The State Board has decided in favor of installing a hot water plant at the Eastern Oregon Insane Asylum. George W. Kendall, of the Kendall Heating Co., Portland, Ore., has been retained to prepare the plans.

PORTLAND, ORE.—Two bids were received by F. C. McIndo, Portland U. S. Engrs., for the installation of oil-burning apparatus and boilers in the dredge "Clatsop": Vulcan Iron Works, $23,850; Willamette Iron Works & Steel Works, $24,740.

BLYTH (San Bernardino post-office), CAL.—The Blyth City Ice & Cold Storage Co. will erect a $25,000 ice plant, creamery and electric light plant. J. B. Lockard and J. R. Dutcher, Secy. and Treas. Two brick buildings will be erected. Total cost, $40,000.

HOLTSVILLE, CAL.—The Board of Trustees of the Union High School District is contemplating the installation of an isolated electric light and power plant.

REDDING, CAL.—The Board of Supervisors of Shasta County has granted a franchise to the Siskiyou Light & Power Co., Yreka, permitting them the right to erect pole lines on any public highway through the county. The company is generating 20,000 HP., and will soon increase this to 60,000. Lines will be extended across the county into San Francisco.

SAN BERNARDINO, CAL.—The Southern California Gas Co. has petitioned the Board of Supervisors for a franchise for a period of five years to construct gas mains and laterals on all the roads within the county. About $100,000 will be expended the first year.

✚SAN FRANCISCO, CAL.—The Pacific Gas & Electric Co. has awarded a contract to the SPRING VALLEY WATER CO. for current to be used in connection with the construction of the Calaveras dam, in Alameda County. A line ten miles in length will be run to the dam. Contract price, $100,000.

SUSANVILLE, CAL.—James Branham made application to the Board of Trustees for a franchise to construct poles and wires for the transmission of electricity for heat, power and light along streets, alleys, highways, etc., of Susanville. Bids will be received by the Board up to 8 p. m., June 1, for the sale of said franchise. R. G. Bangham is Clk.

MONTREAL, QUE.—The National Hydro-Electric Co. has been formed to develop water power at Carillon Falls on the Ottawa River, about 50 miles from Montreal.

PRINCE ALBERT, SASK.—Bids will be received until 8 p. m., June 13, by the Corporation of the City of Prince Albert for the construction of dam and headworks and canal and power station foundations in connection with the proposed hydro-electric power development, on the North Saskatchewan River, at La Colle Falls, about 25 miles east of the city. Plans and specifications may be seen at the City Hall, Prince Albert, or at the offices of C. H. & P. H. Mitchell, Engrs., Traders' Bank Bldg., Toronto, Ont. Andrew Holmes is Mayor, and C. O. Davidson is Secy.-Treas.

BRIDGES.

(*✚Denotes a contract awarded.*)

✚FOXCROFT, ME.—We are officially advised that the contract for constructing a concrete bridge, 120 ft. long, with 9½-ft. roadway, was awarded on May 18 to BEARCE & CLIFFORD, Lewiston, Me., at $20,926. The other bidders were Cyr Bros., Waterville, Me., $22,593; F. A. Rumery Co., Portland, Me., $21,246. W. M. Denman is Engr.

✚MECHANIC FALLS, ME.—We are officially advised that bids were received on May 16 for building the superstructure of a single span bridge, 122 ft., with 20-ft. roadway, and two 6-ft. walks, as follows: Boston Bridge Works, $6,300, plank floor; $7,387, wood block floor. United Construction Co., $5,981, $6,451; Canton Bridge Co., $5,656, $6,347; PENN BRIDGE CO., Beaver Falls, Pa., $5,387, $6,147 (awarded contract for wood block floor). E. E. Greenwood is Engr. in Charge.

✚BARNSTABLE, MASS.—We are officially advised that the contract for constructing a reinforced-concrete bridge, 289 ft. long and 20 ft. wide, with a steel draw span, has been awarded to GEORGE M. BYRNE, 79 Milk St., Boston, at $12,750. The other bidders were: Rendle & Stoddard, 333 Border St., East Boston, (a) $12,790, (c) $20,000 (alternative design arch type); F. S. Lavin, New York, (a) $14,750, (c) $23,750; H. P. Converse Co., 88 Broad St., Boston, (b) $13,650 (concrete pile piers); John A. Rooney, 95 Milk St., Boston, (b) $12,740; John J. Falvey, East Somerville, Mass., (a) $15,000, (b) $14,700. F. A. Wales, Tremont Bldg., Boston, is Constr. Engr. Noted on May 4.

✚READING, PA.—The Philadelphia & Reading Ry. Co. has awarded the contract for the erection of two steel bridges on the Schuylkill & Lehigh branch of the Reading & Columbia division to H. E. AHRENS, Reading. One of these bridges will be a single span over the Sacony Creek at Virginsville, and the other a 2-span structure north of Kempton. The latter will be 80 ft. in length.

WESTCHESTER, PA.—Bids will be received by the Commissioners of Chester County until noon, May 29, for the erection of a reinforced-concrete bridge in East Goshen Township. E. V. Philips is Clk.

✚RICHMOND, VA.—We are officially advised that a contract for constructing a 118-ft. concrete bridge with six 16-ft. clear slab spans, over Pole Cat Creek in Caroline County, one-eighth mile from Penola, has been awarded by P. St. J. Wilson, State Highway Comr., to the OWEGO BRIDGE CO., Owego, N. Y. Noted on May 4.

✚LEWISBURG, W. VA.—We are officially advised that the contract for constructing two bridges over Meadow River was awarded on May 16 to the LUTIN BRIDGE CO., York, Pa., for reinforced-concrete structures, at $7,380 and $2,316. The other bids were for steel structures with concrete floor, as follows: Virginia Bridge & Iron Co., $6,930, $1,740; York Bridge Co., York, Pa., $5,800; Owego Bridge Co., Owego, [illegible] $6,500, $1,900; Roanoke Co., Roa[illegible] $5,700, $1,257; Farris Co., Pitts[illegible] $5,857, $1,557. John E. Dougher[illegible] [illegible]y Road Engr.

CHARLOTTE, N. C.—Bids [illegible] received by the Commissioners of [illegible]rg and Gaston Counties, until 11 [illegible] May 31 for constructing a steel [illegible] over the Catawba River. John F [illegible] Cha[illegible] Gaston County Bd.; W. M. [illegible] Meck[illegible]lenburg County Bd.

GREENWOOD, MISS.—Bi[illegible] be re-ceived by the Leflore Cou[illegible] [illegible]visors until June 5 for construct[illegible] draw-bridge across Tallahatchie [illegible] between Leflore and Tallahatchie Co[illegible] accord-ing to plans and specificatio[illegible] with C. W. Crockett, Clk.

TALLULAH, LA.—Bids w[illegible] received by A. L. Slack, Secy. Pol[illegible] until June 20 for lowering the st[illegible] [illegible] over Bayou Vidal at the Point C[illegible] [illegible]tation, at least 15 ft. The bridge h[illegible] span of 185 ft. and the entire length [illegible] including the approaches.

✚NASHVILLE, TENN.—We [illegible] officially advised that the FOSTER [illegible]TON GOULD CO. has been award[illegible] contract by the Louisville & Nashville [illegible] W. H. Courtenay, Ch. Engr., to re[illegible] the bridges across Choctawhatchie a[illegible] [illegible]palachicola Rivers on the Pensacola [illegible]on, in Florida. The work includes bo[illegible] substructure and superstructure. The n[illegible] substructure will be of plain and reinfor[illegible] [illegible]crete to replace the creosoted pile p[illegible] now in use.

CINCINNATI, OHIO.—F. H. S[illegible] City Engr., has prepared plans and [illegible] approximate estimate for a viaduct to eli[illegible]te the grade crossing at Ludlow Ave. T[illegible] viaduct proper will be 1,336 ft., the w[illegible] approach 105 ft. and the east approach 2[illegible] The roadway will be 40 ft., and there w[illegible] be two sidewalks of 10 ft. each. The [illegible] of the structure is estimated at $325,0[illegible] and the land and damages $95,000, a total [illegible] $420,000, of which the Baltimore & O[illegible] R. R. will pay 65%.

✚DAYTON, OHIO.—We are officially advised that the lowest bid received on May 19 for constructing an iron and steel bridge was submitted by A. A. Fox, Brookville, Ohio, at $11,886.

INDIANAPOLIS, IND.—The County Commissioners have appropriated $3,500 for the construction of a bridge over the canal at Sunset Ave., and $5,000 for a bridge over Little Eagle Creek at West Washington St. Bids will be asked soon.

INDIANAPOLIS, IND.—Bids will be received by the County Commissioners until June 12 for constructing the Capitol Ave. bridge over Fall Creek, estimated at $85,000. W. T. Brown is Clk. of Comrs.

INDIANA.—Bids will be received for bridge work as follows: Until June 5, by Commissioners of Decatur County at Greensburg, for the repair of bridge. Frank E. Ryan is County Audr.; until 1 p. m., June 5, by Commissioners of Johnson County at Franklin, for the construction of seven small reinforced-concrete bridges. Wm. B. Jennings is County Audr.; until 2 p. m., June 5, by Commissioners of Morgan County at Martinsville, Ind., for the construction of a concrete bridge over White River at Waverly. J. S. Whitaker is County Audr.; until 2 p. m., June 6, by Commissioners of Rush County at Rushville, Ind., for the construction of six bridges and repair of others. Jesse M. Stone is County Audr.; until 10 a. m., June 6, by Commissioners of Shelby County at Shelbyville, Ind., for the construction of certain culverts, abutments, etc. G. B. Huntington is County Audr.; until 1.30 p. m., June 6, by Commissioners of Parke County at Rockville, for the repair of two bridges. James E. Elder is County Audr.; until 2 p. m., June 6, by Commissioners of Warrick County, at Boonville, for the construction of four bridges. N. M. Spradley is County Audr.; until 1 p. m., June 7, by Commissioners of Boone County at Lebanon, for the construction or repair of 18 bridges. B. F. Herdrich is County Audr.; until 1 p. m., June 13, by Commissioners of Scott County at Scottsburg, Ind., for the construction of two iron bridges and four concrete bridges. Robt. Blunt is County Audr.

PEKIN, ILL.—Bids will be received by the County Clerk until 1.30 p. m., June 5, for the construction of two small reinforced-concrete bridges in Tremont Township, Tazewell County.

ELDORA, IOWA.—The County Commissioners have voted to construct two new steel bridges with concrete floor, one at Eldora, 400 ft. long, and one at Iowa Falls, 250 ft. long, to cost about $15,000 each. E. L. Marriage, Eldora, is County Audr.

HUTCHINSON, KAN.—Bids will be received by the Board of Commissioners of the City of Hutchinson, at the City Clerk's office, until 3 p. m., June 2, for the construction of a reinforced concrete slab and girder bridge, 50 ft. long, 15 ft. spans, and 90 ft. wide, in accordance with plans and specifications prepared by G. L. M'Lane, City Engr., and on file at the office of Ed Metz, City Clk.

LINNEUS, MO.—Bids will be received by Wade Ten Eyck, Highway Engr., of Lynn County, Mo., until noon, June 6, for following bridges, erected complete, according to plans and specifications on file with the Highway Engineer: 58-ft. three-panel steel girder, 28-ft. steel girder, 24-ft. steel girder, 45-ft. pin-connected span, 45-ft. pin-connected span, 30-ft. steel girder.

INDEPENDENCE, MO.—Bids will be received by the County Commissioners until May 31 for constructing two reinforced concrete arch bridges, one over Sinbar Creek, 70 × 18 ft., and one over Colburns Branch, 40 × 18 ft. R. I. Proctor is County Highway Engr.

SANTA FE, N. MEX.—Bids will be received until June 1 for furnishing plans and specifications for three bridges to cross the Santa Fe River. Bids for the construction work will be received until July 3. I. Sparks, [illegible] and George W. Armijo, Secy. Bd. of County Comrs.

SPOKANE, WASH.—Plans have been prepared by [illegible]orton Macartney, City Engr., for construction of a 1,000-ft. steel bridge, to cost $285,000, over the river at Nettleton St.

TACOMA, WASH.—Bids will be received until [illegible] for constructing two movable bridges, together with approaches and substructure, estimated at $585,000. Waddell & Harrington, Kansas City, Mo., are Consult. and [illegible] Engrs.

OROVILLE, CAL.—Bids will be received by the Clerk of the Board of Supervisors of Butte County until 1 p. m., June 7, for the erection of a concrete, steel and wooden bridge across Merrill Slough, in Road District No. 14. Plans and specifications for the same are on file in the office of H. T. Batchel[illegible], County Clk.

[illegible], CAL.—Bids will be received by the Clerk of the Board of Supervisors until 10 a. m., July 5, for the construction of a 140-ft. open steel Pratt truss bridge over Scott River, in Griffin Lane, Etna Road District, in accordance with plans and specifications on file with the Clerk. W. J. Neil[illegible]on is Clk.

LONDESBOROUGH, ONT.—Bids will be received by the Council of the Township of Hullett until 2 p. m., May 27, for building a steel bridge, 100-ft., between abutments, 16-ft. roadway, with cement floor, over the river Maitland, about seven miles north of Seaforth; also for the building of cement abutments and one cement abutment at Wallace's Bridge, near Summerhill. James Campbell is Township Clk.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

MELROSE, MASS.—Plans for the immediate building of a new Melrose Hospital, to cost $[illegible],000, were completed at a recent meeting of the trustees. Ground will be broken at the site at Franklin and Lebanon Sts. The building will be of brick. The $60,000 in cash and pledged subscriptions is now in the hands of the trustees to cover the cost of the structure. A building committee of five will soon be named by M. S. Page, Pres.

HOLYOKE, MASS.—William B. Reid, Holyoke, Mass., has completed plans for the new Joseph Metcalf School on Northampton St., Elmwood, for the city of Holyoke. The building will be 98 × 144 ft., two stories and basement, of red brick, with standstone trim and copper cornices. It will contain twelve class rooms, an assembly hall, 60 x 66 ft., to seat 800, and a manual training department in the basement.

WESTERLY, R. I.—William R. Walker & Son, Providence, R. I., have been commissioned to draw the plans for the proposed new court house in this city, which will cost about $125,000. The building will probably be of granite, two stories high.

✚BRIDGEPORT, CONN.—The contract for the erection of a new business block on Main St. for Kline Bros. has been awarded to THE TORRINGTON BUILDING CO., Torrington, Conn. The building will be 24 × 112 ft., four stories high, of brick and steel, with copper cornice and freight elevator. Leonard Asheim, Bridgeport, is the Arch.

DERBY, CONN.—The Connecticut Co. has completed plans for a new car barn here. The building will be 100 × 180 ft., one story high, with steel truss roof. The foundations will be concrete on piles or concrete piles. C. C. Elwell, New Haven, is Ch. Engr.

HARTFORD, CONN.—From plans of F. C. Walz, estimates are being received for the construction of a new store and tenement building at Park and Zion Sts., for Kaplan Bros. The building will be 35 × 80 ft., four stories high, of brick with stone trim.

NEW YORK, N. Y.—Bids will be received until June 5 by the Dept. of Education for the alterations and repairs to various schools.

NEW YORK, N. Y.—Plans have been filed for the construction of a 2-story freight house for the New York Central & Hudson River R. R. Co., fronting on 32d and 33d Sts., with an extension on Tenth av. It will be semi-fireproof, and will have a frontage of 38.3 ft. on each street and a depth of 197.6 ft. The cost has been placed at $250,000.

✚NEW YORK, N. Y.—We are advised that the item appearing in our issue of May 11 to the effect that the contract for the construction of a 10-story business building for Sternau & Co., was awarded the George A. Fuller Co. is erroneous. The contract was awarded to the TURNER CONSTRUCTION CO., 11 Broadway, New York City.

Plans are being prepared by Nast & Springsteen, 21 West 45th St., for the construction of a 5-story tenement building at 172d St., east of St. Nicholas Ave. The Paterno & Sons Contracting Co., 3058 Heath Ave., in the Bronx. The cost is about $100,000. Bids will be received by the owner on structural steel, sheet metal, work, etc.

A 6-story apartment building will be erected on the northwest corner of White and Baxter Sts. by Aronson & Baum, 50 Mott St. The cost is about $50,000. Plans were prepared by Schwartz & Gross, 347 Fifth Ave., New York City.

A 6-story tenement building will be constructed on the southeast corner of Suffolk and Delancey Sts. by A. Collier, 41 Division St. The estimated cost is $40,000. Plans were prepared by Samuel Sass, 32 Union Sq., New York City.

Plans are being prepared by Sommerfield & Steckler, 31 Union Sq., for the construction of a 5-story tenement building on the north side of 171st St., west of Audubon Ave. The Placid Realty Co., 498 West 158th St. is owner. The estimated cost is $70,000.

Plans have been prepared by Sommerfield & Steckler, 31 Union Sq., for the construction of a 5-story tenement building on the south side of 140th St., west of Amsterdam Ave. The William M. Moore Construction Co., 520 West 139th St., is owner. The estimated cost is $85,000.

Plans are being prepared by George F. Pelham, 507 Fifth Ave., for the construction of a 5-story tenement building on the east side of Third Ave., south of 171st St. The Wendover-Bronx Co., 34 West 96th St., is the owner.

Two 5-story tenement buildings will be erected on the south side of 145th St., west of Brook Ave., by the Joel Realty Co., 35 Nassau St. The estimated cost is $80,000. Plans are being prepared by Charles Schaefer, 401 Tremont Ave.,

An 8-story apartment building will be erected by the James Livingston Construction Co., 18 West 27th St., on the northwest corner of Ft. Washington Ave. and 170th St. Plans are being prepared by Neville & Bagge, 217 West 125th St. The probable cost of the structure is about $300,000.

The Charles Buck Construction Co., 5 East 42d St., will erect four 5-story brick and limestone dwellings on the southwest corner of Madison Ave. and 79th St. Plans are being prepared by S. E. Gage, 340 Madison Ave. The probable cost is $125,000.

The Roma Construction Co., 3903 Snyder Ave., Brooklyn, will erect a 5-story tenement building on the west side of Brook Ave., south of 170th St. The cost is $45,000. Plans are being prepared by M. W. Del Gaudio, 1910 Webster Ave.

The Little Sisters of the Poor will build a home on the northeast corner of Riverside Drive and 140th St. The 100 × 225 site was bought from the Hoguet estate for $200,000.

ALBANY, N. Y.—The Board of Contract and Supply will receive bids until June 5 for making additions and alterations to School No. 17. Isidore Wachsman is Secy.

ASTORIA (L. I.), N. Y.—A 4-story building will be erected by the Queens Borough Realty Assn., 215 Montague St., Brooklyn, on the corner of Wilson and Eleventh Aves., Astoria. Plans were prepared by John H. Friend, 148 Alexander Ave., New York City. The cost is $75,000.

BUFFALO, N. Y.—Geo. N. Mead, Lafayette Ave., is receiving bids for a store and lodge building which he will erect at Walden Ave. and Brinkman St., 80 × 80 ft., two stories and basement, brick, from plans of Colson & Hudson, 35 Dun Bldg.

Joseph G. Geigand, 346 Herman St., has plans in preparation for a brick and tile synagogue, 44 × 86 ft., to be erected on Pratt St. by the Anshe Libovitz Congregation. Isaac Smith, 214 Seneca St., is Chn. Bldg. Com.

✚LITTLE FALLS, N. Y.—The committee in charge of the erection of a club house for the Presbyterian Church has awarded to the P. B. McCAGHEY CO., here, the contract for erecting the building, at $50,110, exclusive of heating, plumbing and ventilating. D. H. Burrell gave $60,000 toward the building, which, when completed, will cost about $100,000. The plans are those of Arch. Harold J. Cook, of this place. M. G. Bronner and I. T. Burney are members of the Bldg. Com.

✚NIAGARA FALLS, N. Y.—BLAIR & HODGKINS have received contract for erection of the Memorial Nurses' Home to be built in connection with the general hospital and training school.

MIDDLEPORT, N. Y.—Martin C. Miller, 1009 Mutual Life Bldg., Buffalo, has completed plans for a 2-story and basement school building, 120 × 90 ft., stone, brick, terra cotta and steel construction, to cost approximately $55,000. A. S. Sherwood, Pres. Bd. Village Trustees.

MIDDLETOWN, N. Y.—The Westminster Presbyterian Church is having plans prepared by Carrere & Hastings, 225 Fifth Ave., New York City, for a church and institutional building, two stories, to be erected at an estimated cost of $150,000.

✚ROCHESTER, N. Y.—GEORGE KIRCHER, 444 Alphonse St., has received the contract for the erection of a synagogue, 62 × 100 ft., on Hanover St., for the Beth Agodel Congregation, to cost $40,000.

TROY, N. Y.—The Sisters of St. Joseph are remodeling the interior of St. Joseph's Provincial Seminary into a novitiate. Preliminary work has already been done and it is estimated that the modifications will involve the expenditure of more than $250,000.

The estimated cost of construction of the new Central school, as provided for by the Common Council in its recent adoption of a bond issue for this purpose, is $350,000.

✚BELLEVILLE, N. J.—Bids will be received by the Board of Education until May 29 for constructing an addition to the school on Magnolia St. Plans were prepared by J. N. Pierson & Son, 95 Smith St., Perth Amboy, N. J.

✚MENDHAM, N. J.—The contract has been awarded to the R. H. HOWER CONSTRUCTION CO., 105 West 40th St., New York City, for the construction of a dwelling, stable and garage for Dr. P. B. Wyckoff, 23 West 57th St. The cost is about $40,000. Henry Otis Chapman, 334 Fifth Ave., New York City, prepared plans.

MERCERVILLE, N. J.—Bids will be received by the Board of Education until May 25 for constructing a school.

NEWARK, N. J.—The Board of Education of Newark will receive bids about June 1, for the construction of the Buchanan School, which will be erected at 17th Ave. and Bergen St. Plans on file in the office of the School Engineer, City Hall. Estimated cost, $165,000.

RED BANK, N. J.—A hospital will be erected in memory of the late Peter F. Collier, New York. The institution will be a stone structure. Plans have been drawn by Joseph Swannell, of Red Bank. The proposed location is a triangular piece of ground at Spring and Wallace Sts., on the east side of Red Bank. The new hospital will be a non-sectarian institution. One hundred thousand dollars has been given by his wife.

RUTHERFORD, N. J.—The Board of Education will receive bids until May 31 for the construction of two 6-room schools. Plans were prepared by Taylor & Mosley, 40 Wall St., New York City.

TRENTON, N. J.—Bids will be received until June 2 by George E. Poole, State Arch., for the construction of an addition to the State House. Probable cost, $60,000.

SOUTH ORANGE, N. J.—According to reports, a store and apartment building will be erected at South Orange Ave. and South Twelfth St., in the western section of the city, at an estimated cost of $40,000. Plans for the building, which will be four stories in height, and constructed of brick and limestone, have been completed by Frank Grad. It will have a frontage of 41 ft. on South Orange Ave., where there will be provided three stores. The building will extend back 120 ft. on Twelfth St. The main entrance to the apartments will be on the latter thoroughfare. There will be apartments of four rooms and bath for 22 families. Jacob Heinochowitz is owner.

✚EBENSBURG, PA.—The contract for the erection of the home of the First National Bank of Ebensburg was awarded to FESSEL & CO., New York City, at $50,000.

✚ELIZABETHTOWN, PA.—The contract for the Grand Lodge Hall, the central building in the group comprising the Masonic home, at Elizabethtown, Pa., was awarded to JOHN R. WIGGINS & CO., Elizabethtown, Pa., at a meeting of the Committee on Homes in the Masonic Temple, Broad and Filbert Sts. The cost is between $375,000 and $500,000.

✚PHILADELPHIA, PA.—Carl P. Berger, Philadelphia, Pa., has awarded to HENRY P. SCHNEIDER a contract for the construction of the Trinity Reformed Church, at the northeast corner of Broad and Venango Sts. The building will be of the Gothic style, with an exterior of granite, 61 × 116 ft. The cost will be $42,000. The auditorium will have a seating capacity of 750. In the basement will be social and recreation rooms, kitchen, dining room and toilets. The same architect will receive estimates shortly for the First Dutch Reformed Church, at the northeast corner of Fifteenth and Dauphin Sts. The plans provide for a stone structure, 89 ft. square.

✚The contract for the erection of a 5-story addition in the rear of 615-617 Market St. has been awarded to HARRY GILL, JR., by Kahn & Greenberg, real estate brokers. A fifth story will be erected on the Market St. buildings. The cost of the combined work is estimated at $10,000.

✚A $42,000 contract for the erection of the new church buildings for the Trinity Reformed Church, Broad and Venango Sts., has been awarded to HENRY P. SCHNEIDER. Besides the church, the building will contain Sunday school, social and recreation rooms, kitchen, dining hall and retiring rooms. The cost of the work is estimated at $42,000. The work will be completed by fall. Carl P. Berger is Arch.

The building permits for the erection of 59 2-story brick houses, to be built on the east and west sides of 64th St., by John M. Hendricks were taken out recently. The total cost of the operation will be $176,000.

According to press reports, it has been announced by Alexander Robertson, Pres. of the Western Maryland Ry., that the company will build a $50,000 passenger station in Cumberland, in the immediate vicinity of the present station. The Potomac River bridge now in use will be abandoned and a massive double-track steel structure substituted, which will be built diagonally so as to eliminate the sharp curve and trestle work approaching the bridge now in use.

PHILADELPHIA, PA.—Plans are being prepared by Watson & Huckel, 1211 Walnut St., for the erection of a large convent at 13th and Jackson Sts., for the Church of the Epiphany. The buildings will occupy about half a block and will be four stories high. The same architects are also preparing plans for a rectory for the Church of the Epiphany, to be built at Twelfth and Jackson Sts.; for remodeling the rectory of St. John's Church, Manayunk, and for a new approach and entrance to the main building of the same church.

Work will be started soon by Milton W. Young on a residence at Villanova for Herbert S. Darlington, which will cost about $75,000. The house will be two and one-half stories in height in the English style of architecture, 111 × 62 ft. The plans are by Horace Trumbauer, Land Title Bldg., Philadelphia, Pa.

GETTYSBURG, PA.—Bids will be received by James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., until June 27 for the construction of a U. S. post-office.

✚LOGAN, PA.—The contract has been awarded for the erection of a station at Logan by the Philadelphia & Reading Ry. Co. to JOHN W. EMERY. The rapid growth of this section caused the railroad to build a new bridge at the station several years ago, and with the local development, the traffic has been too great for the present station. Two new passenger stations will be built on the north and south bound tracks. They will be two stories high and will be constructed of concrete.

✚GLYNDON, MD.—The contract for the erection of the Aged People's Outing Association building for the Methodist Church at Glyndon has been awarded to WILLIAM CRAWFORD BELL, Glyndon, Md.

BALTIMORE, MD.—James Keelty will build 18 2-story brick dwellings, north side Edmondson Ave., between Calverton Rd. and Glenolden Aves., 15 × 56 ft. each; tin roofs, galvanized iron cornices, hot-air heat; cost, $40,000. J. F. Gerwig, architect, owner and builder.

CHARLESTON, W. VA.—The city will begin soon the expenditure of the $40,000 appropriated by the Legislature for the location, erection and maintenance of the State Tuberculosis Sanatorium provided for in House bill.

Bids were received as follows, on May 16, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of an extension to the post-office at Charleston, W. Va.: (a) limestone, (b) sandstone: Moore Construction Co., Charleston, W. Va., (a) $216,000, (b) $218,000; J. E. & A. L. Pennock, Philadelphia, Pa., (a) $186,400, (b) $190,100; Edward Henry, Catlettsburg, Ky., (a) $188,831, (b) $199,206; Joseph Seay & Co., Goshen, Va., (a) $190,000, (b) $194,500; James de Vault & Son, Canton, Ohio, (a) $212,000, (b) $219,000; Conners Bros. Co., Lowell, Mass., (a) $218,000; Richard E. Heningham, New York, N. Y., (a) $192,741, (b) $196,744; John G. Unkefer & Co., Minerva, Ohio, (a) $186,703; King Lumber Co., Charlettesville, Va., (a) $214,500, (b) $222,500. Noted on April 13.

✚MOUNDSVILLE, W. VA.—BATSON & BURTON, Moundsville, W. Va., have been awarded the contract for the erection of Ogleby Hall, a new addition to Bethany College, at $60,000.

DURHAM, N. C.—Plans are being prepared by Frank P. Milburn, Washington, D. C., for the erection of a 4-story building for the Elks of this place. The cost is about $80,000.

KENANSVILLE, N. C.—Bids will be received by the County Comrs. until June 6 for the erection of a courthouse. Plans were prepared by Wheeler & Stern, Charlotte, N. C.

CHARLESTON, S. C.—Plans will be completed in about two weeks for the Y. M. C. A. to be erected here at a cost of $150,000. Shattuck & Hussey, 19 South La Salle St., Chicago, Ill., are Archs.

BIRMINGHAM, ALA.—Loveman, Joseph & Loeb, Birmingham, Ala., will erect an addition, to cost about $350,000. No date for the beginning of the construction has been set, but the details of the addition are being worked out by architects, and it is stated that six or eight stories of modern construction will be added to the big store on the lot immediately in the rear, and at present in use as an airdome. The property is 100 × 140 ft., and with six stories of floor space will double the capacity of the present store.

LOUISVILLE, KY.—Plans have been prepared by D. X. Murphy & Bros., Louisville, Ky., for the construction of the proposed city hospital. The cost is about $1,000,000.

✚CINCINNATI, OHIO.—The following lump bids were received for the construction of the proposed general hospital: Thompson & Sterritt, Chicago, Ill., $1,608,000; Pulse & Porter, New York, $1,792,054; Robert H. Evans & Co., Columbus, Ohio, $1,765,000; Henry Harig & Co., Cincinnati, Ohio, $1,856,000; Robert Heningham, New York, N. Y., $1,898,000; The WESTLAKE CONSTRUCTION CO., St. Louis, Mo., $1,618,747. The specifications upon which the bids were submitted provide for 18 buildings, including the administration building, receiving ward, operating pavilion, kitchen and dining hall, seven ward buildings, male dormitory, nurses' home, pathological building, female dormitory, power and laundry building, detention ward, garage and stable. The engineer's estimate was $1,850,000.

✚SANDUSKY, OHIO.—E. J. HERMAN, Sandusky, Ohio, was awarded contract for the erection of the Oak Harbor school building on his bid of $18,985.

ASHLAND, OHIO.—Congressman Sharp has secured an appropriation of $100,000 for the erection of a government building at this place.

COLUMBUS, OHIO.—Plans have been prepared by Riebel & Sons for the erection of a hotel building on East Long St. for the Central Ohio Land Co.

Richards, McCarty & Bulford have prepared plans for a 5-story reinforced-concrete building, to be erected by the Citizens' Wholesale & Supply Co., on Mt. Vernon Ave.

CLEVELAND, OHIO.—Bids will be received by F. G. Hogen, Dir. Pub. Safety, until May 25 for erecting an administration building, hospital building and cottage ward. Plans by J. Milton Dyer, 825 Cuyahoga Bldg., Cleveland, Ohio.

DAYTON, OHIO.—Bids will be received by the Board of Education for erecting the east wing of the Stivers manual training high school on East Fifth St.

LANCASTER, OHIO.—Bids will be received until May 27 by J. P. Grundy, Pres. Bd. of Pub. Ser., for the construction of a town hall. Plans were prepared by E. H. Rickett, Columbus, Ohio.

LONDON, OHIO.—Bids were opened by the Board of Education May 17 as follows for the construction of a school building: Ham Construction Co., Springfield, $61,563; E. W. McGrath, Columbus, $63,000; J. L. Barnes, Columbus, $56,079; Geo. Fenzel, Columbus, $52,309; John Hina, Columbus, $51,656; John Heckert, Columbus, $53,243.

BLOOMINGTON, IND.—The Trustees of Indiana University are asking for bids for the remodeling of Owen Hall. The building will be made over, a third story being added, an elevator installed, cement floors, etc.

EVANSVILLE, IND.—The City Council is preparing to build a large coliseum to cost $150,000. Bids will be received about July 1.

FRANKLIN, IND.—The Franklin Library Comn. is preparing to ask for bids for the construction of a new library building.

GOSHEN, IND.—The City Council has passed an ordinance providing for the erection of a central fire station and city hall.

INDIANAPOLIS, IND.—Plans for the new pavilion on City Hospital grounds have been approved. Estimated cost, $110,000. Bids will be asked by the Board of Public Works soon.

✚INDIANAPOLIS, IND.—The Trustees of the Methodist Hospital, Charles W. Fairbanks, Pres., have awarded a contract for the construction of the new pavilion to the hospital to HENRY DOLLMAN, at $76,676. Bids for the plumbing, concrete floors, glass doors and other items will be received soon.

INDIANAPOLIS, IND.—The Trustees for the Central Indiana Hospital for the Insane will receive bids as soon as plans are approved for the erection of a new amusement hall at the hospital. Estimated cost, $50,000.

✚NEWCASTLE, IND.—Charles W. Mouch has awarded a contract for the construction of a new business block on Broad St. to WINSHIP & SON, Rushville, Ind. Bids were not made public.

PORTLAND, IND.—The Trustees of Jefferson Township will receive bids until June 15 for the construction of a new centralized school building at New Mt. Pleasant. The building will be large enough to accommodate seven district schools.

PRINCETON, IND.—The School Board and Township Trustees have arranged for the construction of a joint high school building. Bids will be solicited as soon as plans can be prepared.

SANDBORN, IND.—Bids will be received by Nelson Carroll, Secy. Bldg. Com. First Christian Church, until May 31 for erecting an edifice. Plans were prepared by Stone & Osterlage, Vincennes, Ind.

STAUNTON, IND.—Charles Gillispie will receive bids until June 7 for the erection of a high school building. All previous bids were rejected as being too high.

EVANSVILLE, IND.—Plans are being prepared for the construction of a large colosseum to cost about $150,000. The Corn Growers' Ass'n of the First District will subscribe $50,000.

CADILLAC, MICH.—Bids will be received by Felix H. Flynn, County Clk., until June 1 for erecting a courthouse.

CHICAGO, ILL.—The vacant lot at the southwest corner of North State St. and North Ave., formerly belonging to Hobart Chatfield of Chatfield-Taylor, has been purchased by Benjamin H. Marshall, the architect, and will be improved with an apartment house, the land and building to represent an investment of about $450,000. The new building will be eleven stories high and will cover the greater part of the land and will contain twenty apartments, with from fourteen to fifteen rooms each.

PANA, ILL.—Bids were received as follows on May 17, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. postoffice building at Pana, Ill.: (a) limestone; (b) sandstone: O. H. Paddock Lumber Co., Pana., Ill., (a) $80,622; (b) $83,704. Rogers & Kaiser, Chicago, (a) $61,977; (b) $63,777. J. P. Cullen, Janesville, Wis., (a) $65,706; (b) $68,506. C. Chris. Jorgensen, Springfield, Ill., (a) $62,500; (b) $63,500. James Corse, Racine, Wis., (a) $57,939; (b) $58,939. Barnes Bros., Logansport, Ind., (a) $58,900; (b) $65,900. Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $63,987; (b) $65.487. C. E. Carson, Chicago, (a) $66,226; (b) $71,186. Hanson Bros., Chicago, (a) $65,147; (b) $66,900. Conners Bros. Co., Lowell, Mass., (a) $69,500. Noted April 13.

✚CHICAGO, ILL.—The general contract for the 10-story $250,000 Hamilton Club has been awarded to WELLS BROS. CO., 53 West Jackson Blvd., Chicago, Ill.

CHICAGO, ILL.—Marshall & Fox, 919 First National Bank Bldg., Chicago, Ill., will receive bids until June 7 for the 8-story fireproof apartment building to be built for Ogden F. McClurg and S. G. Shepard.

CHICAGO, ILL.—Revised plans for a school building are being prepared by John S. Flizikowski, 138 North Dearborn St., and will be ready for bids in about two weeks.

SPRINGFIELD, ILL.—Six new National Guard armories were provided for by House Bill 264, which passed the Senate recently carrying an appropriation of $405,000. The money will be distributed as follows: Second Regiment, Chicago, $175,000; Eighth Regiment, Chicago, $100,000; Company F, Fifth Infantry; Company I, Eighth Infantry, and Naval Reserves, Quincy, $50,000; Companies D and I, Third Infantry, Aurora, $40,000; Company F. Sixth Infantry, and Naval Reserves, Moline, $35,000; Company G, Third Infantry, Woodstock, $15,000. Several thousand dollars also was appropriated in another bill for repairs for the First Regiment Armory in Chicago.

✚FOND DU LAC, WIS.—The general contract for the erection of a new exchange and office building for the Wisconsin Telephone Co. here was awarded to MAJESTIC CONSTRUCTION CO., Majestic Bldg., Milwaukee, Wis. A. C. Eschweiler, Goldsmith Bldg., Milwaukee, is Arch. Cost, about $65,000.

MARSHFIELD, WIS.—Van Ryn & De Gellcke, 725-727 Caswell Block, Milwaukee, Wis., are preparing plans for a banking house for the American National Bank of Marshfield. W. D. Connor is Pres. Cost, $50,000.

MILWAUKEE, WIS.—The St. John's Home Corporation has been organized to build a new Episcopalian Home for the Aged on Cass St., between Juneau and Knapp Sts., to cost $60,000. Oliver C. Fuller, Pres. Wisconsin Trust Co., is Treas.

RACINE, WIS.—The County Board of Supervisors has voted to establish the new County School of Agriculture and Domestic Economy in the Town of Rochester. About $75,000 will be expended in buildings at once.

DAVENPORT, IOWA.—Bids will be received by the Board of Education until May 26 for constructing the Grant School. Plans by Clausen & Clausen, Central Bldg., Davenport, Iowa.

OGDEN, IOWA.—Bids will be received by the Board of Education until June 5 for constructing a school. Plans by O. H. Carpenter, Iowa City, Iowa.

✚DES MOINES, IOWA.—The contract for the erection of the new $100,000 building of successful farming, the national agricultural paper published in Des Moines, has been let to J. C. MARDIS. Work will start as soon as possible. The building will be located at West Locust St.

✚WATERLOO, IOWA.—The contract for the superstructure of the proposed Franciscan Sisters hospital was awarded to the BLACK HAWK CONSTRUCTION CO., Waterloo, Iowa. The foundation has been completed. The building will be nearly a block in length and four stories high and cost about $200,000.

ST. PAUL, MINN.—The legislature has appropriated $50,00 for the erection of a girls' dormitory at the state agricultural school.

GLENWOOD, MINN.—Bids will be received until May 27 by the Board of Directors for constructing a brick hospital. Plans by A. H. Foss, Elbert Lake, Minn.

LE SUEUR, MINN.—Bids will be received until June 1 by T. G. Mahler, Clk. Bd. Ed., for constructing a brick school. Tremont D. Orf, Minneapolis, is the Arch.

ST. PAUL, MINN.—Bids will be received until May 29 by O. J. Tong, Secy. Bd. of Control, for erecting a service and maintenance building at the City and County Hospital. C. H. Johnson, 715 Capital National Bank Bldg., St. Paul, prepared the plans.

ATCHISON, KAN.—Bids will be received by L. H. Munson, Chn. Bldg. Com., until May 27 for constructing an edifice for the First Church of Christ, Fourth and Santa Fe Sts. Plans were prepared by S. S. Beman, Harvester Bldg., Chicago, Ill.

CLAY CENTER, KAN.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until June 26, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring and lighting fixtures), of the U. S. post-office at Clay Center, Kan. Drawings and specifications, copies of which may be obtained from the Custodian of site at Clay Center, Kan., or at this office, at the discretion of the Superv. Arch.

COFFEYVILLE, KAN.—Bids were received as follows on May 18 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post office building at Coffeyville, Kan.: Latimer & Benning, Kansas City, Mo., (a) limestone, $57,768; King Lumber Co., Charlottesville, Va., (a) limestone, $64,850, (b) sandstone, $66,000; Hiram Lloyd Bldg. & Construction Co., St. Louis, Mo., (a) $58,243; (b) $58,925; Dieter & Wenzel, Joplin, Mo., (a) $58,996, (b) $59,496; Barnes Bros., Logansport, Ind., (a) $63,000, (b) $64,300; H. N. Green, Kansas City, Mo., (a) $54,469; Conners Bros. Co., Lowell, Mass., (a) $63,300.

IMPERIAL, NEB.—Bids will be received by M. H. Prall, County Clk., until June 6 for constructing a courthouse.

PAWNEE CITY, NEB.—Bids will be received by the Board of County Comrs. until June 8 for constructing a courthouse. N. F. Gernandt & Co., Fairbury, Neb., prepared the plans.

PIERCE, NEB.—Bids will be received until June 15 for the construction of a Carnegie Library building. Plans were prepared by the Fall River Co., Hot Springs, S. Dak.

SIDNEY, NEB.—Bids will be received by the Fall River Co., Hot Springs, S. Dak., until June 12 for constructing a courthouse at Sidney.

SIOUX FALLS, S. DAK.—Bids will be received by Henry Howe, County Audr., until June 6 for erecting a jail and sheriff's residence. Joseph Schwartz, Sioux Falls, S. Dak., is Arch.

FARGO, N. DAK.—Bids will be received by T. A. Hasselquist, Clk. Bd. of Educ., until June 7 for constructing a 2-story and basement school. Plans were prepared by Samuel F. Crabbe, Fargo, N. Dak.

KINDRED, N. DAK.—Bids will be received by John Ottis, Cashier Kindred State Bank, until May 25 for erecting a bank building. Plans by M. E. Beebe, Fargo, N. Dak.

SIOUX FALLS, N. DAK.—Bids were received as follows on May 20 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office building at Sioux Falls: General Construction Co., Milwaukee, Wis., $199,990; Dieter & Wenzel, Joplin, Mo., $176,815; Northern Construction Co., Milwaukee, Wis., $197,000; King Lumber Co., Charlottesville, Va., $197,800; C. P. Cullen, Janesville, Wis., $174,726.

KANSAS CITY, MO.—Bids will be received by the Board of Public Works until June 6 for constructing a building for isolating department of the General Hospital, near 24th St. and McCoy Ave.; also bids for plumbing and gas piping, ventilating and heating. F. C. Gunn, 700 Postal Bldg., Kansas City, Mo., prepared plans.

WARRENSBURG, MO.—Bids were received as follows on May 22 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office at Warrensburg, Mo.: (a) limestone, (b) sandstone: Dieter & Wenzel, Joplin, Mo., (a) $63,340; (b) $64,340; Harman Bros., Williamsport, Pa., (a) $58,800, (b) $60,550; Hiram Lloyd Bldg. & Construction Co., St. Louis, Mo., (a) $59,545, (b) $60,545; J. H. Dumas, Jr., Construction Co., Columbia, Mo., (a) $62,486, (b) $64,486; M. Yeager & Sons, Danville, Ill., (a) $59,611, (b) $60,447; H. M. Green, Kansas City, Mo., (a) $58,768, (b) $57,768; Latimer & Benning, Kansas City, Mo., (a) (b) $59,127.; Holladay & Crouse, Greensboro, N. C., (a) $58,500, (b) $59,000; Conners Bros. Co., Lowell, Mass., (a) $64,300, (b) $66,000.

ST. LOUIS, MO.—Application was made yesterday by the Board of Education for a permit to build an addition to Simmons School, 4298 St. Louis Ave., between Newstead and Lambdin Ave. The addition is to cast $80,000, to contain twelve rooms and to be three stories high. It is to cover a ground area of 139 × 84 ft. Alterations in the school now standing are also to be made.

FORDYCE, ARK.—Bids will be received by the Board of County Comrs. until May 27 for constructing a courthouse. F. W. Gibb, Little Rock, Ark., is Arch.

BROWNSVILLE, TEX.—The Merchants' National Bank has adopted plans for a 4-story brick bank and office building to be erected here.

SKIDMORE, TEX.—The Nueces Hotel Co. has selected the Alfred Giles Co., San Antonio, and C. D. Hill & Co., Dallas, to compete in the preparing of plans for the proposed hotel that is to be erected here at a cost of $360,000.

TEXAS CITY, TEX.—Material for the new $50,000 hotel that is to be erected here by William Moore and J. H. Sieber is being assembled on the ground. It will be of reinforced-concrete construction.

WACO, TEX.—The First Presbyterian Congregation sold its property on the corner of Austin Ave. and Ninth St., for $30,000 and purchased a building site two blocks west of the property sold. On the newly purchased site the congregation will build a modern church to cost about $40,000.

DENVER, COLO.—Bids will be received by William R. Burshinell, Secy. State Bd. Capitol Comrs., until June 15 for the construction of various branches of work necessary to erect the Colorado State Museum. Plans by F. E. Edbrooke Arch. Co., 510 Opera House Bldg., Denver, Colo.

FORT COLLINS, COLO.—Bids were received as follows on May 23 by James Knox Taylor, Superv. Archs., Treasury Dept., Washington, D. C., for the construction of a U. S. Post Office at Fort Collins, Colo.: (a) limestone, (b) sandstone: James Stewart & Co., Denver, Colo., (a) $91,000, (b) $95,640; William Simpson Construction Co., Denver, Colo., (a) $109,704, (b) $108,504; Dieter & Wenzel Construction Co., Wichita, Kan., (a) $91,862, (b) $88,862; King Lumber Co., Charlottesville, Va., (a) $98,700, (b) $94,700; Northwestern Construction Co., Kearney, Neb., (a) $94,073, (b) $91,073; J. H. Wiese, South Omaha, Neb., (a) $86,114, (b) $89,754.

✚ROSWELL, N. MEX.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a U. S. postoffice at Roswell, N. Mex., to J. E. & A. L. PENNOCK, Philadelphia, Pa., at $114,400.

OWYHEE, NEV.—Bids will be received by R. G. Valentine, Comr. of Indian Affairs, Washington, D. C., until June 8 for constructing a school house.

PHOENIX, ARIZ.—Bids were received as follows on May 19, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office at Phoenix, Ariz.: Dieter & Wenzel, Joplin, Mo., $150,984; J. E. & A. L. Pennock, Philadelphia, Pa., $165,300; William H. Maxwell, Great Falls, Mont., $140,847; Campbell Bldg. Co., Salt Lake City, Utah, $149,620; A. W. Anson, Albuquerque, N. Mex., $172,800; Adam Groth & Co., Joliet, Ill., $179,770; James Stewart & Co., Denver, Colo., $166,900.

LA GRANDE, ORE.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until June 22 for the construction of a U. S. post-office.

LOS ANGELES, CAL.—A. B. Benton has been commissioned to prepare plans for the Mary Andrews memorial home to be erected by former Senator William A. Clark for the Y. W. C. A., at a cost of $150,000.

WILLOWS, CAL.—The trustees are considering plans for the proposed city hall, prepared by C. H. Russell, San Francisco, Cal., and will soon ask for bids. The sale of the bonds recently voted for the city hall has been concluded. The building will cost about $41,972.

BAKERSFIELD, CAL.—Architect B. M. McDougal, of San Francisco, has prepared plans for a 4-story brick hotel building, to be erected on 19th St. for the Bakersfield Hotel Co. The cost will be $300,000.

FRESNO, CAL.—Parkinson & Bergstrom, Security Bldg., Los Angeles, Cal., have been retained to prepare the plans for a 4-story steel, brick and concrete hotel and theatre building to be erected in this city for Robt. L. Fargo. The cost will be $225,000.

SAN FRANCISCO, CAL.—Bids will be received by Lieut. George McK. Williamson, Deputy Q. M., U. S. A., Fort Mason, until June 3 for erecting an isolation hospital.

✚SAN FRANCISCO, CAL.—The following bids were opened by the Grand Lodge of Odd Fellows for the construction of a home for Odd Fellows at Los Gatos. General contract was awarded to HENRY JACKS, at $182,600.

SAN DIEGO, CAL.—Quayle Bros., Granger Bldg., have been commissioned by the County Board of Supervisors of San Diego County to prepare plans for a 2-story reinforced-concrete jail building; $50,000 is available for the work.

GANANOQUE, ONT.—Bids will be received until May 31 for the construction of an addition to the postoffice building here. R. C. Desrochers is Secy. Dept. of Pub. Wks.

TORONTO, ONT.—The Western Baptist Church congregation intends to erect a church and Sunday school building at the corner of Queen St., west and Callender St. at a cost of $40,000.

OTTAWA, ONT.—Bids will be received by the Commissioners of Transcontinental Ry. (P. E. Ryan, Secy.), Ottawa, until June 14 for the erection of station and other buildings along the line of the railway, as follows: Section 1, from Plaster Rock, in the Province of New Brunswick, westward to the Quebec boundary; Sec. 2, from Mile 161.5 to Mile 194, east of Quebec Bridge; Sec. 3, from Mile 5 to Mile 105, east of Quebec Bridge; Sec. 4, from the Quebec Bridge westward to Mile 45; Sec. 5, from Mile 55 to Mile 194, west of Quebec Bridge; Sec. 6, at Cochrane, Ont.; Sec. 7, from the divisional yard at Graham, Ont., eastward for 60 miles. Plans, etc., on application to Gordon Grant, Ch. Engr.

WETASKIWIN, ALTA.—Bids will be received until Tuesday, June 6, by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for the construction of a public building. Plans, etc., on application to J. E. Cyr, Supt. Public Bldgs., Winnipeg, or Dept. at Ottawa.

WATER SUPPLY—IRRIGATION.

(✚Denotes a contract awarded.)

OSSIPEE, N. H.—We are officially advised that contract will be awarded in June by the Ossipee Water Co. for construction of new gravity water [illegible] Dudley & Sawyer are Engrs., Ma[illegible]er, N. H. Noted on May 18.

WILLIAMSBURG, MASS.—[illegible] officially advised that plans and specifications have been completed for a rubble [illegible] dam about 425 ft. long and 40 ft. [illegible] with two spillways, each 60 ft. long, to be erected on the west branch of the Mill River, near Williamsburg, by the Hampshire Reservoir Co. Bids for this work will be received until noon, June 15. Joseph C. Sch[illegible] 73 Tremont St., Boston, Mass., and [illegible] West [illegible] St., New York, is Engr.

HOLYOKE, MASS.—The Board of Water Commissioners, on May 17, awarded the contract for the construction of the new dam at the storage reservoir, to the CONNECTICUT ENGINEERING & CONSTRUCTION CO., of Norwich, Conn., lowest bidder, at $33,361.

✚PITTSFIELD, MASS.—The Water Commissioners and the Board of Public Works on May 15 opened bids for laying [illegible],500 ft. of 18-in. water main from the F[illegible]m dam toward the center of the city. There were eight bids. The contract was awarded to DANIEL A. DORY, of Natick, at $10,018. The other bidders were as follows: S. Camposia of West Medford, $10,474; Towe & Walsh, of Pittsfield, $12,456; S[illegible] Contracting Co., of Waterbury, Conn., $13,645; Michael Russo of Boston, $14,1[illegible]; Winston & Co. of New York, $16,762; A[illegible]w Cussack of Boston, $17,692; Danis[illegible] Riley & Co., of Pittsfield, $20,723.

✚LONGMEADOW, MASS.—The contract for the construction of a concrete reservoir and pump-house foundations here has been awarded to VAUGHN & KIBBE, of Springfield, Mass.

✚WEST BROOKFIELD, MASS.—The town has been granted permission by the State Legislature to borrow $30,000 for the installation of a water-works system.

WATERBURY, CONN.—Bids for stripping the surface soil from the basin of the new Morris Reservoir in the towns of Morris and Litchfield will be received by the Board of Public Works until 8 p. m., May 30. Further information may be obtained from Robert A. Cairns, City Engr.

NEWPORT, N. Y.—Bids will be received until 10 a. m., May 29, by the Board of Water Commissioners at the office of the Village Clerk, for the construction of a water distribution main and distribution system. Plans, etc., are at the office of the Board. Charles L. Fellons is Secy. Vrooman & Perry are Engrs., Gloversville, N. Y.

BUFFALO, N. Y.—The lowest bid received by the Board of Public Works for constructing two brick tunnels from the east side of the Front Ave. pumping station under the tracks of the New York Central & Hudson River R. R. and extensions to the west curb of Front Ave., for discharge mains, new pumps Nos. 3 and 4, was submitted by the Eastern Concrete Steel Co., 401 D. S. Morgan Bldg., Buffalo, at $22,462.

YONKERS, N. Y.—The Board of Contract and Supply, James V. Mahoney, Secy., will receive bids until June 5 for furnishing 513 lengths of 30-in. water pipe, 4,700 lbs. to the length, a total of 1,205 tons; 32 tons of special castings; five 24-in. geared gate valves, according to the standard of the New England Waterworks Association.

CONKLINGVILLE, N. Y.—With modifications designed to protect the State's interests and to provide for the return of a revenue, the State Water Supply Commission on May 17 made a final order approving the plan for the regulation of the flow of the upper Hudson River by the construction of a storage reservoir on the Sacandaga River, near Conklingville, at a cost of $4,650,000. A bill authorizing the execution of the plan must become a law before any further steps can be taken. Noted on April 13.

FREDONIA, N. Y.—We are officially advised that the citizens have voted against the proposition to spend $150,000 for water supply improvements. Noted on May 18.

*GENEVA, N. Y.—Bids will be received by the Board of Public Works until 7.30 p. m., June 8, for constructing a 2,000,000-gallon concrete-covered reservoir. C. T. Church is Supt. Advertised last week.

MEXICO, N. Y.—We are officially advised that surveys are now being made for the construction of water-works here. Estimated cost, about $40,000. W. G. Stone & Son are Engrs., Mann Bldg., Utica, N. Y. Noted on May 18.

NIAGARA FALLS, N. Y.—On May 16 the taxpayers voted to spend $360,000 to parallel the mains of the Western New York Water Co. Bids will be received until June 5 by the Board of Water Commissioners.

YONKERS, N. Y.—The city will spend several thousand dollars on an auxiliary water system of artesian wells. J. A. Brady is Comr. Pub. Wks.

NEW YORK, N. Y.—All bids received on May 16 by John W. Brannan, Pres. Bd. of Trustees of Bellevue and Allied Hospitals for all labor and material required for constructing and erecting a sprinkling equipment at Bellevue Hospital, Boro. Manhattan, have been rejected.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m. June 5, for furnishing and delivering pipes, valves and pipe fittings, boiler and pipe covering, etc.

Bids were received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, on May 19, for furnishing, delivering and laying water mains and appurtenances in Belmont, Clarke, Henry, Jersey, Nautilus, Oak, Second, Smith, Third, Varian, Vine, Washington and Woodstock Sts.; Bayview, Bidwell, Bismark, Brighton, Burger, Chestnut, Cl[illegible]n, Deems, Excelsior, Fisk, Forest, Huguen[illegible] Indiana, Jewett, Laurel, Leonard, Lincoln, Maine, Maryland, Meisner, Neal Dow, N[illegible]on, New York, Oakland, Pleasant, Sea, Sh[illegible]rott, St. John, Tompkins, Van Pelt, Vista, [illegible]dwell, Washington, Waters, Westerve[illegible]ard, Winant and Woodvail Aves.; Annad[illegible] Bloomingdale, Clove, County House, [illegible]esh Kills, Harbor, Manor, Richmond [illegible]ey, Short Todt Hill and Watchogue Roads, [illegible]bama, New York, Ohio and Washington [illegible]laces; Jefferson and Southfield Boule[illegible]s; The Boulevard, Broadway, Gifford's [illegible]ne, Ocean Terrace and Richmond Turn[illegible] and removing existing water mains [illegible] appurtenances in Jersey St.; Forest, [illegible]t, Maryland, Sharrott and Westerve[illegible]es., Todt Hill Road and Richmond Turn[illegible] Boro. Richmond: James McAvoy, 303 [illegible] 127th St., New York, $300,409; Leo [illegible]elley, $339,062; William F. Norton, $342,[illegible]

TR[illegible] N. Y.—Bids will be received by the B[illegible]d of Contract and Supply until 11 a. m. [illegible]ay 29, for furnishing for the use of the Bureau of Water, Dept. Pub. Wks., f. o. b. car at Melrose, N. Y., one carload containing approximately 18 tons of copper sulphate crushed (not granulated and free from dirt, dust and sweepings, to contain not less than 23% copper, nor more than 39% acid and not more than 35% of water nor more than a trace of iron) price to be quoted for car lot, per ton. Samples of the sulphate to be furnished must be submitted with bid. Specifications at City Engineer's and Secretary's offices. James M. Riley is Secy.

MASONTOWN, PA.—Bids are being received by the Borough of Masontown for the construction of a water filtration plant in accordance with plans prepared by Chester & Fleming, Consult. Engrs., Pittsburg, Pa. E. C. Baker is City Engr.

CUMBERLAND, MD.—The city has voted in favor of issuing $500,000 of bonds for a new gravity water supply, from Evitts Creek, about nine miles distant. J. H. Fuertes, New York, is Consult. Engr. Noted on March 16.

FREDERICK, MD.—Bids will be received by the City Register until June 1 for furnishing material and lining with asphalt an 8,000,000-gallon reservoir. William H. Boardman, 426 Walnut St., Philadelphia, Pa., is Engr.

LA PLATA, MD.—The Town Commissioners have engaged G. E. A. Hairley, 511 Equitable Bldg., Baltimore, Md., to survey the town preparatory to the construction of a water system. Noted on May 11.

ROMNEY, W. VA.—Bids will be received by the city until 8 p. m., June 1, for the construction of a pipe line and a 100,000-gallon reservoir for the proposed water system. The work will consist of laying approximately 3,559 ft. of 4-in. w.-i. or steel screw pipe or 4-in. wood stave pipe; 10,250 ft. of 3-in. w.-i or steel screw pipe or 3-in. wood stave pipe; 3,550 ft. 4-in. c.-i. pipe, 350 ft. of 6-in. w.-i. pipe in concrete, and the setting of the necessary valves, hydrants and specials; the construction of a concrete reservoir with a capacity of 100,000 gallons; repairing old dam and cleaning out, widening and making mill race watertight, building a stone or concrete pump well. T. Chalkley Hatton is Consult. Engr., Wilmington, Del.

TARBORO, N. C.—The city will construct a 50,000-gallon concrete filter plant, electric-driven turbine pumps, 260-gallon concrete storage reservoir, pumping station and one mile of 10-in. c.-i. pipe. Gilbert C. White is Engr., Durham, N. C.

HONEA PATH, S. C.—The citizens have voted to issue $25,000 of bonds for the construction of water-works.

TITUSVILLE, FLA.—Bids will be opened probably in August by the city for the construction of a water-works and materials. Noted on March 2.

OCALA, FLA.—The citizens on May 16 voted in favor of issuing $100,000 of bonds for the installation of a new water-works system. Noted on May 11.

✚WHITE CASTLE, LA.—The Mayor and City Council have awarded the contract for laying 2,000 ft. of water mains in Bowie St. to DAVID LOPEZ, of White Castle. WOODWARD, WRIGHT & CO., Ltd., of New Orleans, La., have the contract for furnishing the material.

McKENZIE, TENN.—The city has voted $10,000 of bonds for the extension of the water and electric light plants and for street improvements.

✚NASHVILLE, TENN.—The contract was awarded to the J. N. STONE CONSTRUCTION CO., Nashville, on May 16, by the Board of Public Works for the construction of about 41,000 ft. of new water mains at $12,249. Other bids were as follows: M. J. Cunniff, $15,413; Southern Roofing & Paving Co., $14,178; T. I. Curtis & Son, $14,250; E. T. Lewis & Co., $15,724; Foy-Proctor Co., $16,478; J. P. LeSueurer & Co., $18,761; W. M. Leftwich, $14,114; S. T. Stewart & Bro., $18,573; John Broderick, $13,773. About three-fourths of the new mains will be of 6-in. pipe, and the remainder 12 and 18 in.

CLEVELAND, OHIO.—Bids will be received for the construction of the proposed water tunnel about July 1. L. C. Smith is Supt. W.-Wks.

NILES, OHIO.—Bids were opened on May 10 by the city for the construction of a 3,000,000-gallon filtration plant. The contract has been awarded to ENSMINGER BROS., of Columbus, Ohio, at $39,820. Other bidders were: W. H. Ralston, Mt. Vernon, $45,300; Roberts Eilder Mfg. Co., Philadelphia, Pa., $49,100; Niles Lumber Co., Niles, $42,950; Pittsburg Filter Mfg. Co., Pittsburg, Pa., $48,800; American Water Softener Co., Philadelphia, $53,787. Louis Adovasio, Youngstown, $44,507.

✚LAKEWOOD, OHIO.—We are officially advised that the contract has been awarded by the city to the DES MOINES BRIDGE & IRON CO., of Des Moines, Iowa, for constructing the steel water tower on a concrete base. The William H. Evers Engineering Co. is Engr., Cleveland, Ohio.

*KENTON, OHIO.—Bids will be received until June 6 by the Department of Public Service for the construction of a 2,000,000-gallon reservoir, and for water-works equipment, except a 2,500,000-gallon pump. Charles Brossmann is Engr., Union Trust Bldg., Indianapolis, Ind.

CLINTON, IND.—The city is considering improvements to the water-works system by constructing about two miles of 4, 6 and 8-in. c.-i. pipe. William Hamilton is Supt. W.-Wks.

MOROCCO, IND.—The Town Council is preparing to ask for bids for the construction and equipment of a modern water-works plant.

PLAINFIELD, IND.—The Board of Control of the Indiana Boys School will receive bids until June 6, 1911, for the construction of a water tower and other improvements to the water plant. Charles Brosnan, Indianapolis, is Engr.

RICHMOND, IND.—The Board of Public Works will receive bids until 10 a. m., June 12, for furnishing water to the city for a period of 25 years, all mains laid to be of standard quality, the machinery, equipment, pumping plant, etc., of the most approved type and a reservoir to hold 1,300,000 gallons, etc.

*EVANSVILLE, IND.—Bids will be received until 10 a. m., June 17, by the city, at the office of Alvord & Burdick, Engrs., 1417 Hartford Bldg., Chicago, Ill., for furnishing the following materials: Approximately 250 tons of c.-i. pipe and specials; 30 valves, from 4-in. to 30-in.; one 24-in. Venturi meter, and one pitometer. Henry L. Heilman is Secy. Bd. Water Comrs.

LA FAYETTE, IND.—The city is considering the installation of a system of driven wells. Capacity, 7,000,000 gallons every 24 hours.

LEESBURG, IND.—The Town Board is considering the construction of water-works. Estimated cost, $8,000.

BENTON HARBOR, MICH.—The citizens on May 4 voted bonds for $100,000 for development of the present wells, building a new station and laying mains in all parts of the city.

ANNA, ILL.—The City Council has passed an ordinance providing for laying 23,347 ft. of distributing mains. Estimated cost, including fire hydrants, valves and valve boxes, $20,608.

✚CHICAGO, ILL.—The contract for the supply of explosives and explosive supplies to the Reclamation Service for the two years beginning May 15, 1911, has been awarded to the DUPONT DE NEMOURS E. I. POWDER CO., of Wilmington, Del. Noted on April 27.

FENNIMORE, WIS.—Bids will be received by the Board of Trustees until May 30 for drilling a well. William Weaver is Clk.

LEON, IOWA.—Bids will be received until June 5 by the City Clerk for the construction of water-works. The Iowa Engineering Co. is Engr., Clinton, Iowa.

BARNESVILLE, MINN.—M. P. Philippi, City Clk., will receive bids until 8 p. m., May 31, for 1,589 ft. of water mains. M. A. Earl is Engr.

CHISHOLM, MINN.—F. L. Austin, Secy. Water, Light, Power and Building Commission will receive bids until noon, June 6, for 57 tons of 4 and 6-in. c.-i. water pipe.

EDEN VALLEY, MINN.—W. R. Salisbury, Village Clk., will receive bids until 8 p. m., June 5, for about 2,200 ft. of 2-in. water pipe.

EVELETH, MINN.—The following bids were received on May 16 by the city for the erection of a foundation and installing a 2,500,000-gallon pump: Epping-Carpenter Co., Pittsburg, Pa., $15,721, with a deduction of $1,679 if the city makes the connection; Fred. W. Prescott Co., Milwaukee, $12,560 for pump, $13,710 for erection of foundation and pump, $2,750 for installation work, $300 for additions: Norberg Mfg. Co., Milwaukee, Norberg engine, $15,000; Laidlaw Dun-Gordon Co., Milwaukee, Wis., $11,400 for pump and $2,750 for installation.

MADELIA, MINN.—Bids will be received until May 29 by A. Massey, Village Recr., for constructing a steel water tank and tower.

SLAYTON, MINN.—Bids will be received until June 5 by the Village Council for constructing water mains in Third St. and Eastling Ave., 3,650 ft.

ST. PAUL, MINN.—The Water Board has ordered the laying of 4,000 ft. of 6-in. water main in Hamline and the Midway District, in Lafond, Edwin, Blair and Rondo Sts. Other streets in the district will have water pipe laid as soon as they are graded. Estimated cost, $5,000.

HARTINGTON, NEB.—The City Clerk will receive bids until 8 p. m., June 2, for sinking a well and furnishing a gasoline engine and triplex pump for the water-works.

WOLSEY, S. DAK.—H. M. Morgan, City Clk., will receive bids until 8 p. m., May 29, for the construction of a 4½-in. artesian well.

✚FARGO, N. DAK.—The contract for the construction of the filter plant has been awarded to JAMES KENNEDY, Fargo, at $170,000. List of bidders noted on May 18. Bids will be received until 5 p. m., May 31, by E. R. Orchard, City Audr., for furnishing material and constructing water mains in portions of Tenth St., South Seventh St., South and other streets, requiring about 10,027 lin. ft. of 6-in. main and 15 hydrants.

VALLEY CITY, N. DAK.—Bids will be received by the City Auditor until 8 p. m., June 5, for water main extensions including 3,700 lin. ft. of 4-in. pipe. C. A. Myhre is City Engr.

BASIN, WYO.—Bids will be received by James F. Ewers, Town Clk., until June 7 for furnishing the material and constructing improvements to the water-works and electric light plant. The work includes furnishing c.-i. pipe, castings, hydrants, valves, mechanical filter, pumping and electrical machinery. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs. Noted on March 30.

UPTON, WYO.—Bids will be received by Geo. H. Davis, Town Clk., until June 9 for the construction of water-works, including water mains, pumping machinery, water tower, etc. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs. Noted on March 30.

MERCEDES, TEX.—The American Rio Grande Land & Irrigation Co., Mercedes, is planning to extend its canals to irrigate 6,000 acres. The flumes and trunk canals will be built with a capacity for 50,000 acres to provide for future extensions. The company at present has under irrigation about 25,000 acres. Thomas M. Plummer, Mercedes, is Gen. Mgr., and W. F. Shaw, Mercedes, is Engr.

NOCONA, TEX.—The city has voted to issue bonds for the construction of water-works.

SAN BENITO, TEX.—The Los Indios Irrigated Land Co. has been organized here with a capital stock of $10,000. The incorporators are: J. C. Miller, J. George Bowyer and M. W. Jones.

*WINTERS, TEX.—Bids will be received until 6 p. m., June 7, by the Mayor and City Council for the construction of water-works. The O'Neil Engineering Co. is Engr., Dallas, Tex.

YORKTOWN, TEX.—The city has voted $6,000 of bonds for water main extensions.

BARTLESVILLE, OKLA.—The Corporation Commission has instructed the Water & Light Co. to spend $106,700 for extensions of mains, etc. T. C. Hughes of Tulsa, Okla., Consult. Engr., has recommended the cutting of a ditch about one-half mile long to straighten the Caney River and reserve the bend for a reservoir.

WANOKA, OKLA.—Plans are being prepared by William Haviland, Alva, Okla., for the construction of water-works and an electric light plant. C. D. Willard is Town Clk.

COLORADO SPRINGS, COLO.—The City Council has passed a resolution empowering the Commissioner of Public Works to ask for bids for equipment for the new pumping station.

GREELEY, COLO.—Bids will be received by W. A. Hotchkiss, City Clk., until 5 p. m., May 26, for the construction of a filtration basin No. 3, at the water-works. The work consists of concrete lining wall, etc., of a basin 150 × 180 × 10 ft.; construction of underdrainage system and connection and furnishing gravel and sand for filtration material in place.

SPRINGER, N. MEX.—The Lake Charette Land & Irrigation Co. has been formed here with a capital stock of $250,000 for the purpose of constructing a large system of irrigation. It is planned to reclaim about 10,000 acres. The incorporators are: Woodford A. Matlock, of Denver, Colo.; E. F. Bidwell, of Kinsley, Kan.: Amos L. Bennett of Nickerson, Kan.; Merrick K. Edwards, of Denver; Charles F. Hortenstein and Charles E. Hartley, of Springer, and Edward Taylor of Mullinville, Kan.

LAS CRUCES, N. MEX.—The citizens have voted to issue $75,000 of bonds for the installation of water-works and sewerage. Noted on March 9.

✚MOUNTAIN HOME, IDAHO.—We are officially advised that the city will construct a municipal water-works system consisting of a 6,650 ft. of 8-in. 15,000 ft. of 6-in. and 3,050 ft. of 4-in. wood stave pipe, 30 fire hydrants, 60,000 gallon tank, deep well and pumping plant at a cost of $35,000. The contract for pipe, fittings, gates and hydrants was awarded on May 6 to the WASHINGTON PIPE & FOUNDRY CO. Bids will be received later for the remainder of material and for the construction. E. M. Blake, 621 Idaho Bldg., Boise, Idaho, is Engr.

PARK CITY, UTAH.—The following bids have been opened by the City Council for the construction of a new water-works plant: Lynch & Cannon Engineering Co., Salt Lake City, Utah, $48,949; J. W. Percival, Salt Lake City, $56,380; A. A. CLARK, Salt Lake City, $47,499 (awarded contract); McKay & Reed, Salt Lake City, $47,800; P. J. Moran, Salt Lake City, $57,732; Moran Construction Co., Salt Lake City, $47,010; Wheelwright Construction Co., Ogden, Utah, $47,144.

FLAGSTAFF, ARIZ.—The Atchison, Topeka & Santa Fe R. R. Co., it is reported, have entered into an agreement with the City Council, according to which, the company receives title to all water rights and is to construct a reservoir with a capacity of 50,000,000 gallons, to cost $100,000. C. A. Morse is Ch. Engr., Topeka, Kan.

FORT WORDEN (Port Townsend post-office), WASH.—Bids for the construction of a 2,000,000-gallon reinforced-concrete reservoir, with water mains, etc., at Fort Worden, will be received by Capt. E. C. Long, Const. Q. M., U. S. A., 482 Arcade Annex, Seattle, Wash., until June 3.

CENTRAL POINT, ORE.—Bids will be received by J. W. Jacobs, City Recdr., until 5 p. m., June 5, for extending water mains. Osgood & Cummings are Engrs., Medford, Ore.

PENDLETON, ORE.—The citizens have voted in favor of issuing $200,000 of bonds for the installation of a gravity water system.

ORLAND, CAL.—The citizens on May 2 voted in favor of issuing $25,000 of bonds for the installation of a water-works system.

CHINO, CAL.—The town has voted $40,000 for a municipal water system. Either the present system will be purchased and improved or an entirely new system installed.

*MANTECA, CAL.—Bids will be received by the Directors of the South San Joaquin Irrigation District at Manteca, until 10 a. m., June 19, for furnishing the materials for and constructing Contract-Divisions 1, 2, 3, 4, 5 and 6, of their irrigation system. Contract-Division 1 and Contract-Division 2 will be let jointly by the South San Joaquin and Oakdale Irrigation Districts. Contract-Divisions 3, 4, 5 and 6 will be let by the South San Joaquin Irrigation District. Copies of the contract-forms, specifications, general plans and forms of bids may be seen and further information obtained at the following places: Office of the Directors, Manteca; office of the Chief Engineer, 1315 Humboldt Bank Bldg., San Francisco, Cal.; office of Engineering News, New York and Chicago, Ill.; office of Engineering-Contracting, Chicago. Bids for the construction of any or all of the six contract-divisions will be received from any bidder; but the proposal for each contract-division must be made separately, upon a separate and distinct form or blank. The various contracts must be entirely completed at dates not later then the following: Contract Division No. 1, March 31, 1912; No. 2, March 1, 1913; No. 3, March 1, 1913; No. 4, March 1, 1913; No. 5, March 1, 1913; No. 6, March 1, 1913, and bids will be received contemplating the completion of the work of the various contracts at the above dates. The works to be constructed under these contracts are as follows: Contract Division No. 1, a concrete diversion dam about 450 ft. long on crest and of about 75 ft. maximum height; concrete head and regulating works to canal. The quantities are shown in detail in the specifications, and are very roughly as follows: Concrete, about 8,400 cu. yds.; earth and rock excavation, about 12,000 cu. yds.; steel in concrete, about 55 tons, etc. The total amount of this contract will be roughly about $100,000. Contract Division No. 2, a conduit about 3.6 miles long of open canal and tunnels, along the canyon of the Stanislaus River, mainly slate rock excavation on steep side-slopes. Two tunnels about 1,000 ft. long each, one about 2,900 ft. long, remainder open canal. Entire length lined with concrete. About 112,000 cu. yds. of excavation in open canal, etc., etc. Total amount of this contract, about $300,000. Contract Division No. 3, a conduit about 2.7 miles long of open canal and tunnels, in foot-hills, mainly hard-pan excavation in deep cuts. Four tunnels 980 ft. in aggregate length, remainder open canal entire length lined with concrete. About 180,000 cu. yds. excavation in open canal, etc., etc.; total amount of this contract, about $200,000. Contract Division No. 4, a flume about 14½ ft. wide by 9 ft. high in inside dimensions and about 2,000 ft. long, carried on a trestle or piers of about 65 ft. maximum height and about 38 ft. average height. Bids are asked both on a wooden and on a reinforced-concrete structure. The wooden structure would contain approximately: 190 M. ft. B. M. of redwood lumber, 430 M. ft. B. M. of Oregon fir lumber, 25,000 lbs. of spikes, bolts, etc., and would cost roughly $30,000. The alternative reinforced-concrete structure would contain approximately 6,700 cu. yds. concrete, 200 tons steel bars, etc., and would cost roughly $80,000. Contract Division No. 5, conduit about 3.9 miles long, of open canal except one tunnel about 740 ft. long, in foot-hills, mainly hard-pan excavation, moderate cuts. About 250,000 cu. yds. excavation, about 60,000 cu. yds. embankment, tunnel and embankments (about 6,000 ft. of latter) lined with concrete. Total amount of this contract, about $175,000. Contract Division No. 6, about 6.4 miles of open canal, no tunnels, in plain, no concrete-lining. About 300,000 cu. yds. excavation, largely hardpan. The amount of this contract will be roughly $130,000. Each of above Contract Divisions contains auxiliary structures such as drainage culverts, waste gates, bridges, drops, or siphons, etc., etc., all of which are shown with quantities in the specifications and contract drawings. The area of the South San Joaquin Irrigation District is 71,050 acres. The total bond issue authorized is $1,875,000, or $26.40 per acre. Edwin Duryea, Jr., is Ch. Engr., 1315 Humboldt Bank Bldg. Plans and specifications are now on file at the office of Engineering News, New York.

RIVERSIDE, CAL.—The Riverside Water Co. is contemplating cementing its upper canal.

*MONTREAL, QUE.—Bids will be received by the Board of Commissioners until noon, June 29, for furnishing and installing pumping machinery, rotary blower and cranes in and about the proposed low lift pumping station of the filtration plant of the city in accordance with the plans and specifications on file in the office of the Chief Engineer of Public Works and in the office of Hering & Fuller, No. 170 Broadway, New York, from whom copies may be obtained. The work to be done, consists of furnishing and installing, in the pumping station to be built by the city, the following machinery: Fourteen centrifugal pumps, direct-connected to electric motors, of approximate capacities and lifts as follows: Four pumps, 17,500 Imperial gallons per min., each 18 ft. lift. Two pumps, 11,600 Imperial gallons per min., each 18 ft. lift. Two pumps, 5,800 Imperial gallons per min., each 18 ft. lift. Two pumps 1,300 Imperial gallons per min., each 48 ft. lift. Two pumps, 330 Imperial gallons per min., each 15 ft. lift. Two pumps, 150 Imperial gallons per min., each 15 ft. lift. One rotary blower, direct-connected to an electric motor, and having a capacity of 5,000 cu. ft. of air against 5-lb. per sq. in. pressure. Two hand-operated traveling cranes, each of a capacity of six tons of 2,000 lbs. L. N. Senecal is Secy.

TORONTO, ONT.—Bids will be received by G. R. Geary, Mayor, and Chn. Bd. of Control, until noon, May 25, for cleaning, repairing and relaying the 6-ft. steel conduit lying between the intake and the tank on the lake shore.

RIDGETOWN, ONT.—Bids will be received by D. Cochrane, Town Clk., until 8 p. m., June 1, for water-works supplies and labor as follows: About 2,600 ft. of 8-in., 6,400 ft. of 6-in. and 3,700 ft. of 4-in. c.-i. water pipe, about eight tons of special castings, about 35 hydrants, valves, etc.; also for excavating for, laying and covering the above pipe, and one steel elevated tank.

PRINCE ALBERT, SASK.—Bids will be received until noon, May 31, by the City Commissioners for (1) extensions to water and sewerage system, including 12-in. c.-i. sewage pumping main, 2,365 lin. ft.; 10-in. c.-i. water main, 2,966 lin. ft.; 8-in. c.-i. water main, 1,634 lin. ft.; 6-in. c.-i. water main, 8,798 lin. ft.; 24-in. storm sewer vitrified pipe, 1,300 lin. ft.; 18-in. storm sewer vitrified pipe, 1,650 lin. ft.; 8-in. storm sewer vitrified pipe, 928 lin. ft.; 12-in. sanitary sewer vitrified pipe, 3,580 lin. ft.; 10-in. sanitary sewer vitrified pipe 440 lin. ft.; 8-in. sanitary sewer vitrified pipe, 7,648 lin. ft.; 35 manholes, 28 catch basins, (2) construction of concrete sewage pumping station No. 2; (3) supplying and erection of two electrically driven centrifugal sewage pumps and motors. F. A. Creighton is City Engr.

SEWERS.

(**Denotes that this work is advertised in Engineering News.*)

ANSONIA, CONN.—The Sewer Commission is planning the extension of the sewer system through the First Ward and has instructed Vincent B. Clark, City Engr., to prepare the plans.

WINDSOR LOCKS, CONN.—J. E. Egan & Son have completed plans for the sewer system, which is now under consideration by the Sewer Commissioners. Bids will probably be received soon.

*JOHNSTOWN, N. Y.—Bids will be received until June 12 for the construction of a trunk sewer in or along the Cayadutta Creek, from Market St. to Main St. Grover E. Yerdon is City Clk.

BINGHAMTON, N. Y.—Bids will be received by the Bd. of Contract and Supply until May 31 for constructing vitrified pipe sewers in various streets.

BUFFALO, N. Y.—Bids will be received until June 1 by Francis G. Ward, Comr. of Pub. Wks., for the installation of a 48-in., 27-in. and 24-in. brick and an 18-in., 15-in. and 20-in. tile sewer in Delavan Ave.

KINGSTON, PA.—Bids will be received by W. J. Williams, Boro. Secy., until May 31 for the installation of sewers. Plans by Young & Wintermuth, 144 Second Natl. Bank Bldg., Wilkes-Barre, Pa.

NEW PHILADELPHIA, PA.—An election will be held June 5 for the purpose of issuing bonds to the amount of $140,000 for the installation of about 12 miles of sanitary and three miles of storm sewers and a disposal plant. G. E. Arnold is City Engr.

WESTCHESTER, PA.—Bids will be received by the Borough Council until June 14 for the installation of sewers and disposal plants here. A. F. Darnore, Jr., P. O. Bldg., Darby, Pa., prepared plans.

*WASHINGTON, D. C.—Bids will be received until June 5 by the Commissioners of the District of Columbia for the following sewers: Service sewer, Rock Creek Valley, north of Military Road; Cleveland Park; Tenleytown, D. C.; B. St., N. W., between Potomac River and 21st St.; 19th St., N. E., trunk sewer.

BLAKELY, GA.—Plans are being prepared by H. Jaudon Engineering Co., for the construction of a sewer system. Probable cost, about $60,000.

COLLEGEPARK, GA.—The city has retained Doak & McKechnie, of Greenville, S. C., as engineers in charge of installation of sewerage and water-works.

SAVANNAH, GA.—The extension and improvement of the storm water drainage system is contemplated. John W. Howard is City Engr.

ENSLEY, ALA.—A sanitary sewage disposal plant will be constructed here at a cost of about $18,000. L. H. Salter, Birmingham, Ala., is Engr.

NEW ORLEANS, LA.—The city has disposed of a $7,000,000 bond issue which will be used for the completion of drainage and sewerage systems. W. J. Hardie is City Engr.

ERWIN, TENN.—The city will construct a sewer system here, it is reported.

✚LEXINGTON, KY.—The city has awarded the contract to THOMAS O'DAY, Lexington, to construct public sanitary sewer on Georgetown St., from Short to Todd St.

COLUMBUS, OHIO.—Bids will be received until noon, May 29, by H. S. Holton, Dir. of Public Service, for the construction of sewers in various streets. David A. Jones is Clk.

LORAIN, OHIO.—Bids will be received until noon, May 29, by the Board of Public Service for the construction of lateral sanitary and storm water sewers in sundry streets. B. Johnston is Clk.

YOUNGSTOWN, OHIO.—Bids will be received until May 26 by the Director of Public Service for constructing sewers in portions of Hawthorne St. and Floral Ave. W. H. McMillin is Clk.

GOSHEN, IND.—Plans are being made on which bids will be asked by the City Clk. for the construction of a sanitary sewer system beginning in North Fifth St.

✚HAMMOND, IND.—The Board of Public Works awarded the contract to W. F. BRUNT for constructing sewers, Section B, in Becker and Bauer Sts. Adam R. Ebert is Chm.

BESSEMER, MICH.—Bids will be received by W. L. Guyer, City Clk., until 7.30 p. m., May 29, for the laying of 1,850 ft. of 12-in. 3,607 ft. of 15-in., 293 ft. of 18-in., 400 ft. of 20-in. vitrified pipe sewers, 2 ft. to 16 ft. deep; 1,835 ft. of 2-ft. × 2½-ft. reinforced-concrete sewer 3 ft. to 9 ft. deep; 19 brick manholes, five concrete manholes and catch basins, four inlets and one concrete bulkhead. W. G. Kirchoffer, Madison, Wis., is Engr.

ANNA, ILL.—We are officially advised that this city will construct vitrified tile sewers at a cost of $22,000, water mains at $22,000 and a steel tank at $6,500. It will be 60 to 90 days before special assessment proceedings are completed. C. W. Brown, Jacksonville, Ill., is Engr.

CHICAGO, ILL.—Bids will be received by the Board of Local Improvements, Charles A. V. Standish, Secy., until June 1, at the offices of the Board, City Hall, for sewers and paving in various streets and avenues.

RICHLAND CENTER, WIS.—Bids will be received until June 2 by the Board of Public Works for the construction of sanitary sewers and appurtenances. W. F. J. Fogo is Chn. Com. on Public Wks.

AVOCA, IOWA.—Plans and specifications for sanitary sewers, prepared by John Crick, 824 Brandeis Theatre Bldg., Omaha, Neb., have been approved by the Mayor and Council. The system would cost about $47,000.

NEVADA CITY, IOWA.—The final hearing on resolution of necessity for the construction of a sanitary sewer system is set for June 3. Cost of system about $30,000. Sam Stiegerwatt, Boone, Iowa, is Engr.

CLINTON, IOWA.—Bids will be received by W. E. Hayes, City Clk., until May 29, for construction of main and lateral sewers in the city of Clinton, consisting of 300 ft. 48-in. 2-ring brick sewer, 500 ft. 48-in. 1½-ring brick sewer, 400 ft. 42-in., 1½-ring brick sewer, 1,343 ft. 30-in. 1½-ring brick sewer, 765 ft. 36-in. pipe sewer, 1,988 ft. 30-in. pipe sewer, 2,452 ft. 24-in. pipe sewer, 1,544 ft. 20-in. pipe sewer, 3,560 ft. 18-in. pipe sewer, 2,993 ft. 15-in. pipe sewer, 11,515 ft. 12-in. pipe sewer, 7,165 ft. 10-in. pipe sewer, 5,513 ft. 10-in. catch basin pipe, 14,880 cu. yds. rock excavation, 76 manholes, 62 catch basins, 122 inlet basins. R. C. Hart is City Engr.

VALLEY JUNCTION, IOWA.—The Iowa Engineering Co., Clinton, Iowa, has completed plans for seven miles of sanitary sewer and disposal plant for Valley Junction, to cost $40,000. C. P. Chase is Pres.

✚AUSTIN, MINN.—The contract has been awarded to J. W. TURNER & CO., Des Moines, Iowa., at $5,769 for the construction of sewers in various streets.

OMAHA, NEB.—Bids will be received by the city of Omaha until June 5 for new S. W. Branch South Omaha Main Sewer: 400 lin. ft., more or less, 6-ft., 2½-ring brick circular sewer; 1,342 lin. ft., more or less, 6-ft. reinforced concrete sewer; 16 lin. ft., more or less, funnel section, as shown on plans; 1,392 lin. ft., more or less, 5-ft., 2-in., 2-ring brick circular sewer; 1,227 lin. ft., more or less, 3-ft., 4-in., 2-ring brick circular sewer; 556 lin. ft., more or less, 3-ft., 2-ring brick circular sewer. Burt St. Main, reconstruction: 420 lin. ft., more or less, 4-ft., 6-in. brick circular sewer; 1,710 lin. ft., more or less, 3-ft., 6-in. brick and plain concrete sewer; 510 lin. ft., more or less, 5-ft. reinforced concrete sewer. New construction: 510 lin. ft., more or less, 7-ft., 2½-ring brick circular sewer; 1,220 lin. ft., more or less, 5-ft., 2-in., 2-ring brick circular sewer; 910 lin. ft., more or less, 5-ft., 2-ring brick circular sewer George W. Craig is City Engr.

✚CANTON, S. DAK.—The contract has been awarded to A. L. HOISINGTON, Lennox, at $5,200 for the construction of a sewerage system.

PLANKINTON, S. DAK.—Bids will be received until June 5 by C. E. Goodlad, City Audr., for the sanitary disposal of sewage.

LIBBY, MONT.—The Council is considering election on $15,000 bonds install a sewerage system.

✚DALLAS, TEX.—The contract for constructing a storm sewer on South Harwood St., Jackson and First Sts., was awarded to DALLAS LIME & GRAVEL CO., at $13,089.

✚OKLAHOMA CITY, OKLA.—The city has awarded the contract at $29,204 to J. W. SMITH & SON, Oklahoma City, for construction of North Side sanitary main sewer system; also awarded at contract to S. P. BENNETT & WEST, of Oklahoma City, for construction of stock yards sanitary main sewer system at $22,002. W. C. Burke is City Engr.

✚CENTRAL POINT, ORE.—The contract has been awarded to JACOBSON BADE CO., 407 Stanton St., Portland, Ore., for the construction of a sewer system at $64,495.

PENDLETON, ORE.—This city will extend its sewer system at a cost of $25,000. Bids are now being received. Geary Kimbell is City Engr. and Thos. Fitzgerald is City Clk.

ELSINORE, CAL.—Plans are being prepared by Frank A. Lathroy, Los Angeles, Cal., for the construction of a sanitary sewer system at $20,000.

✚LOS ANGELES, CAL.—The contract has been awarded to R. N. NIKEWICH for the construction of sewers in Wilshire Blvd., at $6,766.

ORLAND, CAL.—The citizens of this place have voted to issue bonds to the amount of $20,000 for sewer construction.

✚OTTAWA, ONT.—THOMAS McLAUGHLIN, Ottawa, Ont., has been awarded the contract for the west end drainage system at $209,438.

NORTH TORONTO, ONT.—Contracts were awarded on May 15 for construction of sewers as follows: No. 1, Davisville, GEORGE CROW & SON, Trenton, Ont., $87,000; No. 2, Eglinton, JOHN F. CONNOLLY, Toronto, Ont., $63,852; No. 3, Bedford Park, JAMES REID & CO., Brantford, Ont., $56,157.

GARBAGE DISPOSAL.

(✚*Denotes a contract awarded.*)

✚SPRINGFIELD, MASS.—The contract has been awarded by the city to the AMERICAN CAR SPRINKLER CO. for applying oil mixture to about ten miles of streets.

BUFFALO, N. Y.—The lowest bid received on May 6 by the Department of Public Works for the construction of a foundation for a Heenan-Froude 40-ton 3-grate destructor, a 125-HP. boiler, fan blower and engine, air duct, flue and opening in stack for the refuse utilization plant at the old Hamburg Canal site at Hamburg and Scott Sts., was submitted by the Crooker Co., at $3,377.

McKEESPORT, PA.—Bids will be received by the Street Committee until 8 p. m., June 6 for furnishing two street sweepers. C. E. Soles is City Controller.

NORTH BRADDOCK, PA.—Bids will be received until noon, June 3, by the Borough Secretary for a garbage disposal furnace of ten, 15 and 20 tons capacity in twelve hours, and for a building to inclose the furnace.

MISHAWAKA, IND.—The city is considering the construction of a garbage crematory.

SEATTLE, WASH.—An ordinance has been passed by the City Council appropriating $90,000 for the erection of two additional incinerators, one near 21st Ave. South and Norman St., and one on Block 5, Burke's First Addition. An ordinance was also introduced appropriating $45,000 for the erection of an incinerator at East Ward St. and 28th Ave. North.

STREETS AND ROADS.

(**Denotes that this work is advertised in Engineering News.*)

✚CONCORD, N. H.—We are officially advised that the contract for paving 3½ miles in Hinsdale, was awarded on May 19 to the LANE CONSTRUCTION CORPORATION, Meriden, Conn. Noted on May 11.

✚BETHLEHEM, N. H.—We are officially advised that the contract for 4,500 ft. of paving was awarded on May 22 to MARTIN & CONCLIN, Watertown, Mass.

CONCORD, N. H.—Bids will be received by H. C. Hill, State Engr., until 1 p. m., June 2, for paving 5,500 ft. with native stone in the town of Tilton.

*PORTSMOUTH, N. H.—Bids will be received by the Board of Public Works, until noon, June 5, for brick and granite block paving, as advertised in this issue. J. E. Parker is Engr. and Supt.

BOSTON, MASS. — See item under Miscellaneous Contracts—Rebuilding Piers.

✚BOSTON, MASS.—Contracts for paving have been awarded as follows: Geneva Ave., CENTRAL CONSTRUCTION CO., 6 Beacon St., Boston, at $23,811; Wales St., JAMES DOHERTY, at $5,140; Ardale St., JOHN KELLY & CO., at $11,544; River St., C. W. DOLLOFF & CO., 20 Central St., Boston, at $5,039.

BOSTON, MASS.—Bids will be received by the Park Commissioners, Boston, until May 29, for macadamizing with tarvia macadam and constructing Bermudez asphalt macadam on portions of Riverway Drive.

✚NEW LONDON, CONN.—We are officially advised that the contract for constructing 5,700 sq. yds. macadam road, and 13,200 sq. ft. cement walk at Fort H. G. Wright, has been awarded to R. R. MORGAN, New London, at $9,895. Noted on April 13.

*BRIDGEPORT, CONN.—Bids will be received by the Paving and Sewer Commission, Bernard Keating, Secy., until 8 p. m., June 5, for furnishing and laying about 23,680 sq. yds. of wood block pavement on State St.

GREAT NECK, N. Y.—Bids will be received by R. E. Allen, Town Supt. of Highways, until 2 p. m., June 6, for grading and laying a concrete sidewalk from Great Neck Station to the village. Plans and specifications may be obtained from R. E. Allen, or from David C. Will, Engr. in charge, Great Neck, N. Y.

✚LACKAWANNA, N. Y.—The contract for paving Ridge Road with vitrified brick has been awarded to HURLEY & LYNE, Fredonia, N. Y., at $95,000.

OLEAN, N. Y.—Bids will be received by the Commissioners of Public Works, George H. Luthern, Chn., until June 2, for constructing a vitrified wire-cut brick pavement on concrete foundation in Second St. The work includes: 6,678 sq. yds. pavement, 1,930 cu. yds. excavation and 3,960 lin. ft. stone curb. John H. Gaynor is City Engr.

NEW YORK, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., May 31, for regulating, repaving with iron slag and asphalt, etc., portions of various streets.

NEW YORK, N. Y.—Bids for reconstructing and paving with asphaltic earth mixture the Bronx and Pelham Parkway, from the Southern Boulevard to the Butler St. Road, have been received as follows: The Barber Asphalt Paving Co., 30 Church St., $1.13 per sq. yd., $17,187, total; Thomas M. Hart, 2356 Lyon Ave., $0.93 per sq. yd., $14,145 total; The Sicilian Asphalt Paving Co., 41 Park Row, $1.14 per sq. yd., $17,339 total; Uvaldi Contracting Co., 1 Broadway, $0.99 per sq. yd. $15,057 total.

ROCHESTER, N. Y.—Bids will be asked some time in June for paving Dewey Ave. and other streets with asphalt at a cost of $26,000. Edwin A. Fisher is City Engr.

✚YONKERS, N. Y.—We are officially advised that contracts for street improvements have been awarded as follows: Regulating and grading Grant St., from Vernon to Kimball Ave., KELLY & HANNIFIN, $4,888. Regulating and grading Crescent Pl., from Mile Square Road to a point 945 ft. northerly: THOMAS GRADY, $6,000. Regulating and grading Portland Pl., from Shonnard Pl. to Amackassin Terrace: THOMAS GRADY, $9,900. James V. Mahony is Secy. Bd. of Contract and Supply.

*ALBANY, N. Y.—Bids will be received by the State Commission of Highways, Irving J. Morris, Secy., until 1 p. m., June 12, for improving about 100 miles of highway, and until 1 p. m., June 14, for improving about 130 miles.

BUFFALO, N. Y.—The City Council has ordered the paving of Jackson St., between Genesee St. and Court Pl., 25 ft. wide and has directed the Commisioners of Public Works to advertise for bids for various kinds of pavement.

*DUNKIRK, N. Y.—Bids w[illegible] received by the Common Council un[illegible] une 6 for paving and grading Leopard S[illegible] H. Hippell is City Clk., and J. M. [illegible] kell, City Engr.

*NEWBURGH, N. Y.—Bids [illegible] be received by D. J. Coutant, City [illegible] until 3 p. m., June 5, for paving G[illegible] St. The work includes 25,630 sq. yd[illegible] ing, 11,500 lin. ft. curbing, 15 catch [illegible] eight inlet basins, twelve sewer m[illegible] 25 cu. yds. extra concrete, etc.

✚NYACK, N. Y.—A contra[illegible] has been awarded to JOHN M. ROONEY [illegible] ack, for paving with tarvia macadam [illegible] ailway, from New St. to the Upper [illegible] k line, about 7,500 sq. yds., at 80 cts. [illegible] yd.

TROY, N. Y.—Bids will be r[illegible] by the Board of Contract and Supply [illegible] 11 a. m., June 2, for regulating, g[illegible] curbing and paving Fourth St., fr[illegible] lton to Grand Sts. Specifications can [illegible] en at office of James M. Riley, Secy.

WHITE PLAINS, N. Y.—The [illegible] Board has decided to spend $20,000 f[illegible] manent improvements to four streets. Jo[illegible] Brown is Pres.

NEW YORK, N. Y.—Bids will [illegible] ceived by Charles B. Stover, Pres. Park [illegible] until 3 p. m., June 1, for recons[illegible], and surfacing with asphaltic earth [illegible] re the Bronx and Pelham Parkway, [illegible] the Southern Boulevard to the Butler [illegible] road, in the Borough of the Bronx.

NEW YORK, N. Y.—Bids were [illegible] eived on May 16th by the President o[illegible] Borough of the Bronx, for constr[illegible] g the Transverse Road at East 170th S[illegible] follows: M'Harg Barton Co., 165 [illegible] dway, New York., $114,860; Leahy Bldg [illegible] Const. Co., $139,053; McDonald & Bar[illegible] $125,300; J. B. Malatesta, $130,745; [illegible] odwin Const. Co., $131,707; Thomas [illegible] mmins Const. Co., $133,506; T. G. & G. [illegible] Brown, $144,741; J. C. Rogers, Jr., $130,1[illegible] H. J. Wassler, $118,350; Burnside Co[illegible] acting Co., $122,985; Rodgers & Hager[illegible] $121,593; Voorhees Sullivan Co., $118,77[illegible] Hardy Bros. Contracting Co., $117,799.

WHITESBORO, N. Y.—Bids for paving portions of Westmoreland, Railro[illegible] Clinton and Mohawk Sts., approximat[illegible] 7,000 sq. yds., will be received until May 31. Plans and specifications are on file with John C. Eberley, Jr., Village Engr., and at the office of W. G. Stone & Son, Engrs., 9 Mann Bldg., Utica, N. Y.

CAPE MAY, C. H., N. J.—Bids will be received by the Board of Chosen Freeholders, D. W. Rodan, Dir., until June 6 for building the third section of the Seashore Road from Great Egg Harbor River at B[illegible]sleys Point, south about 6½ miles. L. M. Rice, Wildwood, N. J., is County Engr.

ELIZABETH, N. J.—Bids will be received by the City Council until June 1, for paving North Ave. and Chilton St., requiring about 3,965 sq. yds. asphalt macadam, 3,2[illegible] sq. yds. trap block and 9,208 sq. yds. brick pavement. N. K. Thompson is St. Comr.

HACKENSACK, N. J.—Bids will be received by the Board of Chosen Freeholders, until May 29, for improving three sections of Franklin turnpike with asphalt concrete and improving with macadam the road from Saddle River to Park Ridge.

*MORRISTOWN, N. J.—Bids will be received by the Board of Aldermen, Nathaniel C. Toms, Town Clk., until May 29 for paving Speedwell Ave., Park Pl. and Morris St. P. B. Bowler is St. Comr.

NEWARK, N. J.—Bids will be received by the Board of Street and Water Commissioners until 3.15 p. m., June 11, for grading, curbing and flagging Dassing Ave., from Speedway Ave. to city line; Hobson St., from Shaw to Hawthorne Aves.; Leslie St., from Shaw to Hawthorne Aves., and for repaving Ballantine Parkway, from Clifton Ave. to Lake St., with bitulithic pavement on a 6-in. concrete foundation.

NEWARK, N. J.—The lowest bids received on May 18 for paving various streets were submitted by the J. F. Shanley Co., at the following amounts: Belmont Ave., from Watson to Hawthorne Aves., $7,533; Hillside Ave., from Watson to Hillside Aves., $7,440; Sixth Ave., from Clifton Ave. to Parker St., $5,318; Hunter St., from Frelinghuysen to Elizabeth Ave., $8,122; Plum Point Lane, from Hawkins St., to Manufacturers' Branch of C. R. R., $10,926; Alpine St., from Frelinghuysen to Elizabeth Ave., $7,320; Third Ave., from Morris Canal to Roseville Ave., $12,372.

*CAMDEN, N. J.—Bids will be received by the Clerk of the Board of Chosen Freeholders, at Camden, until 11 a. m., June 14, for resurfacing the Camden and Westfield Turnpike. Estimate of quantities: Asphalt concrete, 4,065.32 tons, Type B; 1½-inch stone, 3,677.15 tons; gravel, 3,465 cu. yds.

*SCOTTSDALE, PA.—Bids will be received by R. F. Ellis, Burgess, until 8 p. m., May 31, for grading, curbing and paving several streets.

BELLEVUE, PA.—Bids will be received until May 26 by James M. Simeral, Clk. Council, for grading, curbing and paving Brighton Ave. and repairing Lincoln Ave., about 13,150 sq. yds. of paving, 700 cu. yds. of grading, and 4,400 lin. ft. of curbing. John McBride, Fitzsimmons Bldg., Pittsburg, Pa., is Boro. Engr.

PITTSBURG, PA.—Bids will be received by Oscar J. Denny, Secy. Boro. of S[illegible]ron, until 5 p. m., June 6, for paving Oakland Ave. and Silver St., about 4,430 sq. yds. Specifications may be obtained from Griff W. Nicholls, Boro. Engr.

*RIDGEWAY, PA.—Bids will be received by G. F. Griener, Secy. Town Council, until June 12, for 2,500 cu. yds. excavating, [illegible]000 sq. yds. paving, and 5,600 lin. ft. curbing. F. W. W[illegible]d is Boro. Engr.

✚WASHINGTON, PA.—Contracts for road construction in Washington County have been awarded as follows: Charleroi-B[illegible]leyville Road, three miles long, to the DONORA CONSTRUCTION CO., Donora, Pa., at $31,808; Prosperity-Dunns Station Road, two the McDonald-Venice Road, one OHN F. HOWLEY & CO., 237 Pittsburg, Pa., at $23,672, and

A, PA.—Bids will be received rd of Public Works, W. M. C. es., until 3 p. m., June 2, for ely 85,270 sq. yds. of sheet as- alt block, and brick paving.

OLIS, MD.—Bids will be received y Clerk until noon, June 5, for ond and Madison Sts. with bitum- adam, grading, setting and reset- and other incidental work as de- the specifications. For specifica- ns of proposal and other informa- y to J. C. Little, City Engr.

IMORE, MD.—We are officially ad- l contracts for paving were award- ay 10 by the State Roads Commis- E. Goslin, Secy., as follows: HAS- VING CO., Worcester, Mass., three of Annapolis Boulevard, $149,951; ONNOLLY CO., Boston, Mass., six T. B. Road in Prince George Coun- 69, conditionally; RICKEY-SWANN nton, N. J., three miles of Bryan- oad in Charles County, $20,099, con- y; COBLENTZ & CLIPP, Frederick, ad from Monrovia to Kemptown, in k County, $12,555; I. G. ROBIN- Hollidaysburg, Pa., road from New to New London, $33,092; BAKER & East New Market, Md., road from to Brookview, in Dorchester County, conditionally; B. F. SWEETEN & 2303 Pennsylvania Ave., Baltimore, rom bridge to Patapsco River, in Anne Arundel County, $18,375, conditionally; LU- TEN BRIDGE CO., York, Pa., Rock Creek bridge on Rockville Road, $2,070. Noted on May 4.

UPPER MARLBORO, MD.—Bids will be received by the Commissioners of Prince George County until June 6 for grading and macadamizing about one mile of Queen Chapel Road.

AMHERST, VA.—Bids will be received by the City Clerk, until 11 a. m., May 29, for the construction of 4½ miles of macadam road, according to plans and specifications on file at office of State Highway Commission, Richmond, Va.

RICHMOND, VA.—The Street Committee will recommend for acceptance the bid of the Coleman Contracting Co., at $1.01 per sq. yd., for laying 10,000 sq. yds. granolithic pavement. Charles E. Bolling is City Engr.

PETERSBURG, FLA.—Bids will be received by W. F. Divine, City Clk., until 7.30 p. m., June 1, for grading and paving with vitrified brick, Sixth St., from Central to Seventh Ave., and First St., from Fourth to Fifth Ave.

*GADSDEN, ALA.—Bids will be received by the City Council until June 5 for constructing 4,377 sq. yds. of concrete sidewalk, 200 sq. yds. concrete driveway, 2,073 lin. ft. 4 × 18-in. granite curb, ten catch basins, 500 cu. yds. grading, and 685 lin. ft. curb and gutter. Charles L. Marsh is City Engr.

NEW ORLEANS, LA.—We are officially advised that bids for constructing the Colfax-Rochelle Road in Grant Paris, La., have been received as follows: A. L. Patterson & Co., New Orleans, $60,833; Francis T. Constant, Alexandria, La., $56,920.

PITTSBURG LANDING, TENN.—Bids will be received by Capt. R. L. Carmichael, Q. M., U. S. A., Candler Bldg., Atlanta, Ga., until May 29, for constructing drives, walks, curbs and gutters at Shiloh National Cemetery, Pittsburg Landing, Tenn.

*CHATTANOOGA, TENN.—Bids will be received by the Hamilton County Road Commission, until 1 p. m., June 15, for constructing approximately 107,000 sq. yds. of vitrified brick; bituminous concrete, or bituminous macadam pavement, and 61,000 lin. ft. of concrete curb and gutter. E. D. Bass is Chm. Comn.

ARCHBOLD, OHIO.—Bids will be received by Ora E. Lauber, Vil. Clk., until noon, June 2, for grading, draining, curbing and paving Defiance St.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners until noon, June 9, for improving Springfield Pike.

ST. BERNARD (Cincinnati post-office), OHIO.—Bids will be received by George Schroeder, City Clk., until noon, June 14, for constructing artificial stone sidewalks on Beech St. and Spring Grove Ave.

LOGAN, OHIO.—Bids will be received by the Commissioners of Hocking County until noon, June 1, for grading and macadamizing 88 miles of road in Goodhope Township, according to specifications, plans and profiles on file in the office of the County Commissioners at Logan and at the State Highway Department. The estimated cost of construction is $5,073. James C. Wonders is State Highway Comr.

COLUMBUS, OHIO.—Bids will be received by H. S. Holton, Dir. Pub. Service, until May 29, for paving with hard-burned brick and laying water-service pipe on portions of Fifth Ave., Grove St. and other streets; and until June 1 for paving portions of Spring St. and Dublin Ave.

✚MONTPELIER, OHIO.—H. S. ENCK, Lima, Ohio, has been awarded the contracts for paving Empire and Main Sts., at bids which aggregate $48,908.

PERRYSBURG, OHIO.—Bids will be received by William Charles, Village Clk., until noon, May 26, for draining, grading, curbing and paving Second St.

✚DAYTON, OHIO.—We are officially advised that the contract for grading and improving Cincinnati Pike was awarded on May 20 to GEPHART & KLINE, Dayton, at $10,243. The other bids were: Frank Tejan, $10,887; E. A. Fauver, $10,998. Noted on April 20.

✚ELYRIA, OHIO.—The contract for paving West River St. has been awarded to SOL MENDOLSON, at $14,000.

MARYSVILLE, OHIO.—Bids will be received until May 27 by the County Commissioners for the improvement of the Payne and Philip Herre Roads, and until June 3 for the Boarder Road in Paris and Union Townships, and the Shaw Road in Paris, Taylor and Liberty Townships.

✚NAPOLEON, OHIO.—Contracts have been awarded as follows: Mess Road, to W. H. JEAKLE, JR., $13,613; Bevelheim Road, to RASMUS & CLARK, $14,188; Young Road, to GEORGE W. CODY, $8,971; Cavanaugh Road, to J. W. RITZ, $4,095; Ragan Road, to GEORGE DULL, $6,146; Linthicum Road, to VAJAN & RAUCH, $8,205; Gramling Road, to CONWAY & HARPER, $5,319.

WELLINGTON, OHIO.—Bids will be received by the Village Council until noon, June 1, for 16,000 sq. yds. of brick paving. J. B. Murray is Vil. Clk., and L. A. Fauver, Elyria, Ohio, Engr.

✚YOUNGSTOWN, OHIO.—Contracts for paving have been awarded as follows: TURNER & OLSEN, Rigby St., $14,530; MULLIN & QUINN, Rose St., $4,937; KENNEDY BROS., Plum St., $10,376; CHARLES HARRIS, Lydia St., $18,536.

✚PORTSMOUTH, OHIO.—We are officially advised that contracts were awarded on May 20, as follows: To KAPS BROS., Portsmouth, Eighth St., $15,207; Offnere St., $12,799; to KELLY BROS., Portsmouth, Broadway, $6,477; Monroe St., $1,099; Lawson St., $1,275. H. F. Thompson is Clk. Dept. Pub. Ser.

INDIANA.—Bids for road construction will be received as follows:

Until 1 p. m., June 5, by Commissioners of Warren County, at Williamsport, Ind., for the construction of a gravel road in Kent Civil Township. David H. Moffett is County Audr.

Until 11 a. m., June 5, by Commissioners of Jennings County, at Vernon, Ind., for the construction of a pike road in Vernon Township. M. W. Brogan is County Audr.

Until 10 a. m., June 5, by Commissioners of Jay County, at Portland, Ind., for the improvement of a public highway in Bearcreek Township. W. Lea Smith is County Audr.

Until June 5 by Commissioners of Decatur County, at Greensburg, for the construction of a macadamized road in Clay Township. Frank E. Ryan is County Audr.

Until 1.30 p. m., June 5, by Commissioners of Washington County, at Salem, Ind., for the construction of a road in Washington Township. Frank S. Munkelt is County Audr.

Until 3 p. m., June 5, by Commissioners of Jasper County, at Rensselaer, Ind., for the construction of five stone road improvements in Keener Township. James N. Leatherman is County Audr.

Until 2 p. m., June 5, by Commissioners of Crawford County, at English, Ind., for the construction of pike roads in Jennings Township. J. Evan Jones is County Audr.

Until 2 p. m., June 6, by Commissioners of Daviess County, at Washington, for the construction of three gravel roads in Bogard and Madison Townships. Thomas Nugent is County Audr.

Until noon, June 6, by Commissioners of Pulaski County, at Winamac, Ind., for the improvement of two public highways. W. E. Munchenburg is County Audr.

Until 2 p. m., June 6, by Commissioners of Hamilton County, at Nobleville, Ind., for the construction of a gravel road in White River Township and macadam road in Jackson Township. George Griffin is County Audr.

Until 10 a. m., June 6, by Commissioners of Gibson County, at Princeton, Ind., for the construction of a gravel road in Columbia Township. William T. Roberts is County Audr.

Until 1 p. m., June 6, by Commissioners of Lawrence County, at Bedford, Ind., for the construction of eight gravel or macadamized roads. Ezra W. Edwards is County Audr.

Until 2 p. m., June 6, by Commissioners of Pike County, at Petersburg, for the construction of a gravel road in Patoka Township. John D. Gray is County Audr.

Until 2 p. m., June 6, by Commissioners of Greene County, at Bloomfield, for the construction of a macadam road in Taylor Township. Caswell H. Jenning is County Audr.

Until 10 a. m., June 6, by Commissioners of Wabash County, at Wabash, Ind., for the construction of a road on Pawpaw-Noble Township line. J. P. Noftzger is County Audr.

Until 2 p. m., June 6, by Commissioners of Knox County, at Vincennes, Ind., for the construction of gravel roads in Busseron and Vincennes Townships. John T. Scott is County Audr.

Until 10 a. m., June 6, by Commissioners of Gibson County, at Princeton, Ind., for the improvement of several public highways. William T. Roberts is County Audr.

Until 1.30 p. m., June 6, by Commissioners of Wabash County, at Wabash, Ind., for the improvement of the following highways: one on line dividing Waltz, Liberty and Noble Townships; one on line dividing Waltz and Noble Townships; one in Noble Township; and the highway petitioned for by W. O. Talbert. J. P. Noftzger is County Audr.

Until 11.30 a. m., June 6, by Commissioners of Clay County, at Brazil, for the construction of a stone and gravel road in Harrison Township and a gravel road in Sugar Ridge Township. Edgar A. Staggs is County Audr.

Until noon, June 6, by Commissioners of of Pulaski County, at Winamac, Ind., for the construction of two gravel roads in Beaver Township. W. E. Munchenburg is County Audr.

Until noon, June 6, by Commissioners of Porter County, at Valparaiso, Ind., for the construction of macadam roads in Pleasant Township. C. A. Blachly is County Audr.

Until 10 a. m., June 7, by Commissioners of Monroe County, at Bloomington, Ind., for the improvement of a highway in Bloomington Township. Horace Blakeley is County Audr.

Until noon, June 7, by Commissioners of White and Carroll Counties, at Auditor's office, Monticello, Ind., for construction of stone road on county line. A. G. Fisher is County Audr.

Until 2 p. m., June 8, by Commissioners of Posey County, at Mt. Vernon, Ind., for the construction of gravel roads as follows: One in Robb Township, one in Marrs Township, six in Smith Township, one in Lynn Township, and seven in Center Township. Paul Maier is County Audr.

Until 10 a. m., June 8, by Commissioners of Tippecanoe County, at Lafayette, Ind., for the construction of five gravel roads. George W. Baxter is County Audr.

Until noon, June 15, by Commissioners of Pulaski County, at Winamac, Ind., for the construction of a highway on line between Pulaski and Starke Counties. William E. Munchenburg is County Audr.

INDIANAPOLIS, IND.—Bids will be received by the Board of Public Works until 10 a. m., May 31, for grading and paving various streets. Edward A. Ramsey is City Clk.

INDIANAPOLIS, IND.—Bids will be received by the Board of Public Works, C. A. Schrader, Pres., until 10 a. m., June 2, for improving Graceland Ave., from 38th to 48th Sts. by curbing the outer edges of the roadway, constructing catch basin, providing inlets and resetting inlets; and Laurel St., from Propsect St. to Lexington Ave., by grading and paving the gutters with brick to a uniform width of 30 ins., as shown on plans.

CHICAGO, ILL.—See item under Sewers.

MOUNT CARMEL, ILL.—Bids will be received by F. E. Wright, Mayor, until 2 p. m., May 30, for the construction of 15,725 sq. yds. of vitrified brick pavement on concrete foundation, with cement filler, and concrete curb and gutter. Guy W. Courter is City Engr.

✚WAUKESHA, WIS.—We are officially advised that the contract for constructing macadam pavements was awarded, on May 15, to F. BOORTZ, at $8,292.

✚MILWAUKEE, WIS.—The Department of Public Works has awarded the contract for furnishing 4,500 cu. yds. of crushed stone for street improvement work on the east side to R. H. GUMZ, Milwaukee, at $1.23 per cu. yd.

ASHLAND, WIS.—The Ashland County Board have voted $13,700 for constructing a county road between Ashland and Mellen, and a road between Mellen and Price County.

HARLAN, IOWA.—We are officially advised that all bids received on June 5 for constructing 15,000 sq. yds. pavement were rejected. New bids will be received until June 5. O. F. Graves is City Clk.

MT. PLEASANT, IOWA.—Bids will be received by the City Clerk until June 2, for the following work: 10,710 sq. yds. brick pavement with asphalt filler on concrete base; 9,000 lin. ft. combined curb and gutter; 1,200 sq. yds. extra grading. Hall & Adams, Centerville, Iowa, are Engrs.

MINNEAPOLIS, MINN.—Bids will be received by A. P. Erickson, County Audr., until May 29, for resurfacing Road No. 41 and graveling parts of Roads Nos. 47 and 74 in the Town of Plymouth, and No. 8 in the Town of Hassan.

ALBERT LEA, MINN.—Bids will be received until June 1 for 30,000 sq. yds. of paving and 2.9 miles of concrete curbing. William Barneck, is City Engr.

BROWNSVILLE, TEXAS.—The city has voted $85,000 of bonds for street paving purposes.

LONGVIEW, TEX.—Plans and specifications will be completed in about two weeks, and bids will be advertised in 30 to 60 days for the construction of brick paving, to cost about $60,000. The Aetna Engineering Bureau, 17 North La Salle St., Chicago, Ill., are Engrs.

✚HOUSTON, TEX.—The contract for laying creosoted block pavement on Washington Ave. has been awarded to HORTON & HORTON, Prince Theater Bldg., Houston, at $11,159.

FORT SILL, OKLA.—Bids will be received by Capt. David L. Stone, Constr. Q. M., U. S. A., until 10 a. m., June 10, for constructing madadam roads at Fort Sill.

✚OLYMPIA, WASH.—The INDEPENDENT ASPHALT PAVING CO., Tacoma, Wash., has been awarded the contract for improving Main St., from Seventh to 18th Sts., at an approximate cost of $71,526.

PASCO, WASH.—Bids will be received by L. H. Koontz, City Clk., until 8 p. m., June 6, for the following work: 6,950 cu. yds. excavation, 78,690 sq. ft. sidewalks, 16,660 lin. ft. of curb.

SOUTH BEND, WASH.—Bids will be received by Chas. H. Mills, City Clk., until 5 p. m., June 5, for grading, filling and paving Water St., Adams St., Broadway and Quincy St., as provided by Ordinance No. 381. The estimated cost is $163,000. Plans and specifications are on file in the office of the City Clerk.

BAKERSFIELD, CAL.—The City Council will soon ask bids for paving about 38 city blocks with asphalt and petrolithic.

FRESNO, CAL.—The Board of Supervisors of Fresno County has instructed Scott McKay, County Surv., to make a survey for a new wagon road to the Grant National Park. The grading is estimated at $25,000.

✚LOS ANGELES, CAL.—A contract for improving Sections 2 and 3 of the Harbor Boulevard has been awarded to BENT & PENNEBAKER, Central Bldg., Los Angeles, at $110,000. Section 1 of this road will be readvertised.

LOS ANGELES, CAL.—Plans are being prepared for improving the Covina-Lordsburg Rd., about eight miles long.

LOS ANGELES, CAL.—Bids will be received by the Board of Supervisors until 2 p. m., May 29, for improving portions of the Canada-Verdugo Road and Foothill Boulevard. M. J. Lelande is County Clk.

✚OAKLAND, CAL.—The Southern Pacific R. R. Co., has awarded a contract to the OAKLAND PAVING CO., Oakland, Cal., for grading, curbing with granite, guttering with basalt blocks, paving with asphalt, constructing culverts, catch basins and manholes and reconstructing existing catch basins for a distance of 30 blocks in Seventh St., at $244,185.

STOCKTON, CAL.—Bids will be received by Eugene D. Graham, Clk. Bd. Supervs., until 10 a. m., June 6, for grading and paving Davis and Telegraph Roads for an approximate distance of 25,800 lin. ft.

COLLINGWOOD, ONT.—Bids will be received by K. S. Macdonnell, Town Engr., until 4 p. m., May 31, for the construction of all concrete sidewalks to be laid during the year 1911, approximately 40,350 sq. ft. to be laid at once. Specifications may be seen at the office of the Engineer.

✚OTTAWA, ONT.—The following contracts were awarded on May 12 for asphalt paving: UNION CONSTRUCTION CO., $15,470, for Queen St.; OTTAWA CONSTRUCTION CO., $9,985, for Fairmont Ave.

MANUFACTURING PLANTS.

(✚*Denotes a contract awarded.*)

AUGUSTA, ME.—The Central Locomotive & Car Works Co. has been organized with a capital of $600,000, to construct locomotives and cars. I. S. Kearney is Pres.

ROCKLAND, ME.—The Livingston Mfg. Co. has bought the land adjoining its lime manufacturing establishment on Lime St. and will erect a brick addition which will nearly double the capacity of the plant.

✚CLINTON, MASS.—Official advices are to the effect that the contract for erecting a Hex netting Mill, 165 × 84 ft., and three stories and a tower, for the Clinton Wire Cloth Co., has been awarded to the FISKE-CARTER CONSTRUCTION CO., of Worcester. It will be a fireproof structure, with brick walls, steel floor beams and concrete floors. Charles T. Main, 201 Devonshire St., Boston, Mass., is the Arch.

✚FITCHBURG, MASS.—Official advices are to the effect that the Crocker, Burbank Co. has awarded a contract to WILEY & FOSS, of Fitchburg, for the construction of a 2-story factory, 100 × 300 ft., of brick. George F. Hardy, 309 Broadway, New York, is the Engr. Cost, $80,000.

✚SALEM, MASS.—The contract for erecting a tannery for the Bay State Belting Co. has been awarded to PITMAN & BROWN. It will be of brick and concrete and three stories high.

✚GREYSTONE, R. I.—The contract for the brick weave shed for the Greystone Mills has been awarded to the J. W. BISHOP CO., of Worcester, Mass.

STAMFORD, CONN.—We are officially advised that bids will be received in about three weeks by Charles T. Main, Arch., 201 Devonshire St., Boston, Mass., for the erection of a 7-story brass foundry, 282 × 64 ft., for the Yale & Towne Mfg. Co. It will be a fireproof structure, with a steel frame and concrete floors. Noted on May 11.

✚BRIDGEPORT, CONN.—From plans of Beckwith & Jackson, Archs., of this city, BENJAMIN KING, of Stratford, Conn., has been awarded the contract for the erection of the factory building on Third St. for The Dosch Mfg. Co. The building will be one story and basement, 60 × 140 ft., of reinforced concrete and concrete blocks.

✚MERIDEN, CONN.—LEWIS A. MILLER, of this city, has been awarded the contract for the erection of the factory building on South Vine St. for the Meriden Board of Trade Industrial Corporation. The building will be of brick, 40 × 162 ft. four stories high, slow burning construction and when completed will be occupied by The Brown & Dowd Mfg. Co. There will also be a boiler-house, 20 × 30 ft.

NEW HAVEN, CONN.—A 4-story brick lumber mill, 40 × 150 ft., will be erected by Lewis Hawthorne on Chestnut St. on the site of his former mill, which was recently destroyed by fire. Mr. Hawthorne has temporary quarters at present at 46 Chestnut St. Erroneously noted May 11 under "Waterbury, Conn."

NEW YORK, N. Y.—Official advices are to the effect that bids will be received about May 29, by Hunt & Wiseman, Archs., 106 West 42d St., for the construction of a 6-story, mill construction, brick factory, 50 × 90 ft., at 16-18 Clark St. James C. Kubn, candy manufacturer, 78 Carmine St., is the owner.

The National Biscuit Co. will not erect a plant in the immediate future on the property recently purchased by the company, which is bounded by Tenth Ave., 15th, 16th and Marginal Sts. The project is only at a preliminary stage at present, we are advised. Noted last week.

COLLEGE POINT (Flushing post-office), N. Y.—The United States Metal Products Co. is to build a frame factory, 250 × 157.6 ft., at College Point, on the south side of Third Ave., to cost $20,000.

BUFFALO, N. Y.—The Standard Oil Co., H. P. Chamberlain, Mgr. of the Atlas Works, Elk and Babcock Sts., will build a 1-story steel car repair shop at 1103 Elk St.

The Buffalo Wire Works Co. has completed plans for a 4-story and basement fireproof factory and office building to be erected at 320-322 The Terrace, adjoining its present plant.

The General Drop Forge Co. will build a 1-story steel blower house at its plant at Elmwood Ave. and Erie R. R.

POUGHKEEPSIE, N. Y.—R. W. Delaphena & Co., chocolate and grocers' supply manufacturers, 17 Jay St., New York, have bought a $10,000 site for a factory here, 100 × 400 ft. Plans will be prepared by Percival M. Lloyd, Arch.

SENECA FALLS, N. Y.—The Goulds Mfg. Co. has completed plans for extensive additions to its plant, to include two machine shops, each 350 × 150 ft., one story, and a 4-story factory, 250 × 110 ft., at a total cost of about $250,000.

HORNELL, N. Y.—The Erie R. R. Co. plans to expend $60,000 on enlarging the Hornell shops, it is reported. F. A. Howard, of New York, is Asst. Mgr. of bridges and Buildings.

✚HOBOKEN, N. J.—The general contract for a factory building on the west side of Clinton St., between Eighth and Ninth Sts., Hoboken, for the Oriental Metal Bed Co., has been awarded to the GOLDBERG CONSTRUCTION CO., of Newark. The building, which will be from plans by Max J. Beyer, Arch., will be of brick, three stories in height and 60 × 200 ft. The cost will be $29,450, we are officially advised.

BAYONNE, N. J.—The American Radiator Co. has purchased property here for the purpose of erecting a 2-story reinforced concrete warehouse, with a floor area of 144,000 sq. ft. After this building is completed a manufacturing plant of at least three units will be built. It will include a foundry and machine shop, and they will contain all the equipments necessary to turn out the manufactured products in the finished state. Not only radiators will be manufactured, but entire heating plant systems as well. The plans are now in the hands of the contractors for estimates, and the probable cost of the first construction will be in the neighborhood of $250,000, according to reports.

NEWARK, N. J.—W. E. Lehman, Arch., 738 Broad St., has completed plans for the construction of a 5-story brick factory building to be erected at Austin and Astor Sts. for W. J. Rosenbaum & Co. Estimated cost, $50,000.

W. Orrin Bartlett, Arch., 738 Broad St., is receiving bids for the construction of a 5-story brick mill construction building to be erected at Orange and High Sts. Estimated cost, $50,000.

BRIDESBURG (Philadelphia post-office), PA.—Estimates are being received by Metzger & Wells, Heed Bldg., Philadelphia, on a plant in Bridesburg for the Abrasive Material Co., planned by Stanford B. Lewis. This includes a 1 and 2-story main building, 348 × 124 ft., with a wing 124 × 66 ft., and a 1-story office building, 43 × 66 ft., at James and Fraley Sts.

✚PHILADELPHIA, PA.—We are officially advised that CRAMP & CO., 25 East 26th St., New York, have been awarded the contract to erect a 5-story and basement factory at Allen and Palmer Sts., Philadelphia, for the American Can Co. It will be of reinforced concrete construction, and 80 × 400 ft. Cost, $180,000. Noted last week.

✚The contract to erect a 3-story addition to the carriage factory owned by the George W. Garrett & Son Co., 29th and Spring Garden Sts., has been let to the WAYNE CONTRACTING CO., 1214 Filbert St.

Ballinger & Perot, Archs., 1211 Arch St., have completed plans for a bread-baking plant, to be erected at 25th, York and Hagert Sts. for the Acme Tea Co. The buildings will consist of bakery, offices and power house, and will have a frontage on 25th St. of 225 ft. and on Hagert and York Sts. of 162 ft. Cost, $100,000.

✚M. P. MURPHY, 263 South Tenth St., has been awarded the contract for the erection of the yarn mill for Boger & Crawford, at the corner of Ontario and Janney Sts.

Property at Vine and Juniper Sts. has been purchased by Leon and Isaac H. Goodman for the purpose of erecting an 8-story factory building, it is stated.

J. Edwards & Co., 606 Cherry St., are having plans prepared for a $100,000 factory at 600 to 616 Cherry St.

RICHMOND, VA.—The Orris Products Corporation, makers of orris powder, American National Bank Bldg., organized with $100,000 capital stock, plans to install a root-drying house with cleaning and powdering machinery. The officers are: John T. Howe, Pres. and Mgr.; T. J. King, Vice-Pres. and Warner Moore, Secy. and Farm Mgr.

WINSTON-SALEM, N. C.—A box factory is being planned at Winston-Salem by the Mengel Box Co., of Louisville. It will require the erection of a 200 × 200-ft. 3-story building and the installation of machinery for manufacturing plub tobacco and tobacco shipping boxes. This plant is intended to suply the needs of the R. J. Reynolds Tobacco Co., of Winston-Salem, it is stated.

BARNESVILLE, GA.—The Aldora Mills, of Barnesville, will erect an additional building, two stories high, of brick construction, 100 × 240 ft., and install looms. The company has contracted for electric power from the local transmission system of the Central Georgia Power Co., of Macon. It is stated that the enlargement will cost $150,000.

MOORINGSPORT, LA.—C. D. Webster, of Orange, Tex., is at the head of the Webster Refining Co. that has been organized with a capital stock of $25,000 to erect an oil refinery at Mooringsport.

CLEVELAND, OHIO.—Plans are being prepared by J. Milton Dyer, Arch., Cuyohoga Bldg., for the construction of a 3-story cloak factory and power plant, 290 × 175 ft., for the Sunshine Cloak Co., 1242 West Third St., and M. E. Silver & Co., 1239 West Ninth St., it is reported. Estimated cost, $300,000.

SPRINGFIELD, OHIO.—Bids will be received until noon, June 5, by the Board of Trustees of the District Tuberculosis Hospital, of Champaign, Clark, Greene and Madison Counties, at the office of Dr. Henry Baldwin, Supt., for the erection of a laundry building. W. X. Shilling, Bushnell Bldg., is the Arch.

✚TOLEDO, OHIO.—S. BENTLEY & SONS have been awarded the contract to build the factory for the Toledo Biscuit Co. on George St., in the rear of the Terminal Station. Work is to be started on the project in a few days. The building, which will replace the one destroyed by fire several months ago, will be of reinforced concrete.

✚The Willys-Overland Automobile Co. recently let a contract to W. E. WOOD, of Detroit, Mich., to build a plant which is to be 300 × 400 ft. in size and five stories high. It will be of reinforced concrete and as near fireproof as it is possible to make it. The capacity of the plant, when completed, will be 110 cars daily. Cost, $300,000. J. N. Willys is Pres.

✚YOUNGSTOWN, OHIO.—The contract for building the plant of the Youngstown Carriage & Wagon Co., in East Boardman St., was let recently to H. D. STONEROOK. Estimated cost, $50,000.

✚GARY, IND.—The RITER-CONLEY CO., 57th and Butler Sts., Pittsburg, Pa., have been awarded contracts aggregating $1,000,000 for the construction of the plant of the Gary Screw & Bolt Co., which is to be erected adjoining the steel plant. Work will be started at once. The new company is a subsidiary of the Pittsburg Screw & Bolt Co., which is an independent corporation. It is expected that the new factory will be in operation this fall. About 1,000 men will be employed.

DECATUR, IND.—The Ward Fence Co. has ordered plans on which bids will be asked for the construction of a 200-ft. addition to its factory. The building will be of brick, two stories high.

EVANSVILLE, IND.—The Klamer-Goebel Furniture Co. has ordered plans on which bids will be received for the construction of a furniture factory. Estimated cost, $60,000.

INDIANAPOLIS, IND.—The Butchers' Packing Co., recently incorporated with a capital of $300,000, has ordered plans on which bids will be asked for the construction of a packing plant, to cover ten acres of ground. L. P. Cornet, F. G. Ditman, Abner Lewis, C. F. Koehle and James Gibson are Dirs.

DETROIT, MICH.—A tract of 12 acres on Westminster Ave., between Russell St. and the Grand Trunk tracks, has been purchased by Schwanbeck Bros., showcase manufacturers, for the site of a plant, to cost $200,000. There will be a separate power plant with a 300-HP. Corliss engine, also an electrical plant, as some of the machinery will be driven by motors. An administration building will front on Russell St., and will be 50 × 75 ft. and two stories in height. It is expected that just as soon as the machinery is installed work will begin on another large building, a duplicate of the first one.

✚JEFFERSON, WIS.—The Vaughn Mfg. Co. awarded the general contract for the erection of its $35,000 plant here to JOHN J. SPANGLER, of Jefferson. Julius Heimerl,, 243 34th St., Milwaukee, is Arch.

✚RANDOM LAKE, WIS.—Charles Hamm has awarded the general contract for the erection of a brewery to W. C. RUNGE, of Plymouth, at $12,681.

MILWAUKEE, WIS.—The American Malted Food Co., of Milwaukee, has purchased a tract at 35th Ave. and the Milwaukee Road tracks, and proposes to erect a factory before the end of the year. Tentative plans are for a 4-story building of brick and steel, a warehouse and an office building, the whole to cost about $65,000.

✚H. P. Schnetzky & Son, Archs., have awarded contracts for the erection of a $45,000 garage for August Richter, Jr., to be occupied by the Kissel Kar Co., on Seventh St., north of Grand Ave., as follows: Mason, WILLIAM LIETZ, 2128 Elm St., Milwaukee; concrete, GREAT NORTHERN CONCRETE CO., Germania Bldg., Milwaukee; carpenter, AUGUST HOLSTEIN, 1726 Chestnut St.; plumbing, F. C. KUETEMEYER, 55 Oneida St.; iron work, BAYLEY STRUCTURAL IRON CO., Hathaway Bldg. The building will be four stories and basement high, 50 × 150 ft., of concrete, brick and steel construction. Noted on April 27.

The Milwaukee Electric Ry. & Light Co. has been granted a permit to build a 1 and 2-story repair shop, 370 × 180 ft., of steel and brick construction, at Cold Spring Ave. and 40th St., to cost $90,000. The company will do the work on its own account.

✚OSHKOSH, WIS.—The Bell-Dauber Machine Co., formerly the C. G. Dauber Machine Co., has awarded contracts for the erection of the first unit of its plant on Jackson St. and railroads as follows: Concrete and mason, BADGER CONCRETE CO., of Oshkosh; steel, MILWAUKEE BRIDGE CO., of Milwaukee. Cost, $20,000.

BROWNWOOD, TEX.—Dr. M. M. Scott, who recently purchased the townsite of Owens, near here, will make extensive improvements to the property, including the installation of public utility plants.

HOUSTON, TEX.—The Kansas City Structural Steel & Iron Co., of Kansas City, Mo., has concluded the preliminary arrangements for the establishment here of iron and steel works, to cost $200,000. The plant will employ about 250 men. Howard A. Fitch is Pres. and Fred H. Fitch, Treas. Although the Texas Company will be fostered and built by officers of the Kansas City Company, the Houston plant will be a distinct organization and will be known as the Texas Structural Steel & Iron Co.

HOUSTON, TEX.—The Commercial Motor Car Co., of San Antonio, an organization capitalized at $100,000, has closed a deal for the outright purchase of a manufacturing site in the suburb named, and their full equipment will be removed from San Antonio and shipped to Houston at once, according to press reports. The officers of the company are: Z. Z. Brandon, Pres.; W. E. Tyford, Vice-Pres.; L. J. Brandon, Secy. and Treas. The Board of Directors will consist of the following: Z. Z. Brandon, W. E. Tyford, L. J. Brandon, W. C. Berry and H. O. Skinner.

PHOENIX, ARIZ.—The LORKE MFG. CO., of York, Pa., has been awarded the contract for installing a 65-ton cold storage plant for the Phoenix Machine & Cold Storage Co.

ANTIOCH, CAL.—The American Safety Powder Corporation has been incorporated with a capital stock of $5,000,000 for the purpose of manufacturing a safety blasting powder which is made by a secret process. The plant is to have a capacity of 7,000,000 lbs. a year. A plant is to be erected near Antioch. The incorporators are: Herbert E. Law, E. O. Lindblom, P. A. Brangier, L. A. Stegir, J. W. Schultz, J. B. Rogers and Luther Elkins.

CHINO, CAL.—Carl Leonardt, H. W. Hellman Bldg., Los Angeles, has been awarded the contract for erecting a 2-story brick factory building for the American Beet Sugar Co. at Chino. The building is to be 60 × 200 ft. with steel framed roof and concrete roof slabs. Other details noted May 4.

✚CORONA, CAL.—The California Alfalfa Meal Milling Co., of Los Angeles, has awarded contract to A. T. HOFFMAN, of Corona, to erect a local mill. It will be 200 × 250 ft. It will be the first of eight or ten mills to be erected by the same company in California, each to cost about $25,000.

OAKLAND, CAL.—The Western Tool & Mfg. Co. has been incorporated to erect a factory here, at 957 Broadway. Those interested are: W. A. Sturgeon, J. H. Rackerbry, J. W. Howard and A. J. Sturgeon.

PORT ARTHUR, ONT.—The city has concluded an agreement with J. L. McRae for the establishment of a factory for making interior finishings, to cost $60,000.

WELLAND, ONT.—The Canadian plant of the American Implement Co., the $50,000,000 combination organized by the Deere interests, will be located at Welland, along the banks of the canal. Already 250 acres of land have been purchased for a site, and over $250,000 invested in the Dain factory now owned by the Deere Company. This industry, when established, will be, it is said, the largest in Canada, and the original estimate of 2,500 employees at the Welland plant will probably be greatly exceeded, it is reported.

✚D. DICK & SONS, of Welland, have secured the contract for the proposed buildings for the Canada Steel Foundry Co., at a cost of $250,000.

WELLAND, ONT.—The Dominion Metals Co., Ltd., John N. Lake, Pres., Dufferin St., Toronto, has acquired a site here and will build a gold and silver smelting and refining plant. Upon completion, the present plant in Toronto will be moved to this city.

MISCELLANEOUS CONTRACTS.

(*Denotes that this work is advertised in Engineering News.)

*DREDGING.—Portland, Me.—Bids will be received by Lt.-Col. W. E. Craighill, Corps Engrs., U. S. A., Portland, until June 17, for dredging in Exeter River, N. H.

QUAY WALL.—Portsmouth, N. H.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., June 10, for a granite block quay wall extension at the navy yard, Portsmouth. Plans and specifications can be obtained on application to the Bureau or to the Commandant of the Navy Yard. R. C. Hollyday is Ch. of Bureau.

REPAIRING BREAKWATER.—Boston, Mass.—Bids were received on May 12 by Col. Frederic V. Abbott, Corps Engrs., U. S. A., Boston, for repairing breakwater at Gloucester, Mass: The Breakw[illegible], Philadelphia, Pa., 79 cts. per ton [illegible] lbs.; Rowe Bros. Co., Richmond, M[illegible]

CONDUIT SYSTEM.—Gloucester, Mass.—The New England Telephone and Telegraph Co. has secured a franchise for an underground conduit system from the [illegible] to the town of Manchester, about sev[illegible] distant.

*DREDGING.—Boston, Mass.—Bids will be received until noon, June 22, by Col. Frederic V. Abbot, Corps Engrs., U. S. A., for dredging in Weymouth, Back River, Mass.

DREDGING.—Boston, Mass.—The following bids were received on May 19 by the Massachusetts Harbor and Land Commissioners, Frank W. Hodgdon, Ch. Engr., for dredging in Winthrop: (a) Dredging near Shirley; (b) dredging in main channel: [illegible] Eastern Dredging Co., (a) 28.7 cts., (b) [illegible] cts.; J. P. O'Riordan, (a) 30⅛ cts., (b) [illegible] cts.; Bay State Dredging Co., (a) 2[illegible] (b) 28 cts.

✚ENGINE HOUSE.—Springfield, Mass.—The Board of Fire Commissioners on May 16 awarded to J. G. ROY the contract for erecting an addition to the Pine St. engine-house at $23,550.

✚RETAINING WALL.—Springfield, Mass.—The contract for building the retaining wall on Railroad St. was awarded on May 19 by the Board of Public Works to P. J. KENNEDY, JR., at $11,720.

*DREDGING.—Newport, R. I.—Bids will be received until 2 p. m., June 20 by Col. Frederic V. Abbot, Corps Engrs., U. S. A., for dredging in Providence River and Harbor.

TIMBER, LUMBER, ETC.—Otisville, N. Y.—Bids will be received by the Board of Health, Dept. of Health, until 10 a. m., June 2, for furnishing and delivering timber, lumber, molding, etc., required for the construction of additional buildings and improvements to existing buildings at the tuberculosis sanatorium, Otisville, Orange County.

IMPROVING PLAYGROUND.—New York, N. Y.—Bids will be received by the Park Board until 3 p. m., June 1, for improving the playground located on the north side of Cherry St., between Market St. and the Manhattan Bridge, Boro. Manhattan.

✚GRAND STAND.—New York, N. Y.—The contract has been awarded to the SNARE & TRIEST CO., 143 Liberty St., New York, for the reconstruction of the grand stands at the Polo Grounds, recently destroyed by fire. The stands will be of reinforced concrete and steel. Noted on May 11.

✚CONCRETE PIER.—New York, N. Y.—The ROBBINS-RIPLEY CO., 50 Church St., New York, has been awarded the contract for constructing a concrete pier at Ellis Island. The pier is to be built entirely of reinforced concrete, the piling being 18 ins. square and about 30 ft. long, and composed of 1, 2, 4 mixture, in which an approved waterproofing will be used. The beams, girders and deck are also of reinforced concrete.

LUMBER, ETC.—New York, N. Y.—Bids will be received by R. Waldo, Fire Comr., until 10.30 a. m., May 31, for furnishing and delivering lumber, etc.

MANHOLE FRAMES AND COVERS.—New York, N. Y.—Bids will be received by R. Waldo, Fire Comr., until 10.30 a. m., June 1, for furnishing and delivering 50 manhole frames and covers for the fire-alarm telegraph, Boro. Manhattan, and 50 manhole frames and covers for the fire-alarm telegraph, Boro. Brooklyn.

(Continued on opposite page.)

CONTRACT PRICES.

WATER-WORKS.—New York, N. Y.—Bids were received on May 4 by the Board of Water Supply for Contract 77, Wakefield Ave. blow-off, from the Hill View Reservoir, as follows: (A) T. J. & G. L. Brown, 87 Hamilton Pl., New York; (B) Keystone State Construction Co., Pennsylvania Bldg., Philadelphia, Pa.; (C) King, Ganey Contracting Co., 120 Broadway, New York; (D) D. Cuozzo & Co., Park Row Bldg., New York; (E) Voorhees-Sullivan Contracting Co., Dorothea Pl., Fordham, N. Y.; (F) Godwin Construction Co., 30 Church St., New York; (G) Wm. F. Norton, 215 West 125th St., New York; (H) T. M. McLeod Co., 90 West St., New York; (I) Patrick Derry, 44 Jane St., New York; (J) F. N. Lewis, 263 Fourth Ave., New York; (K) Sillery, Nordone & Sillery, Mt. Vernon, N. Y.; (L) Phoenix Construction Co., 41 Park Row, New York:

WATER SUPPLY CONTRACT 77, NEW YORK, N. Y.

	A	B	C	D	E	F	G	H	I	J	K	L
970 lin. ft. excavation, Class A	$5.00	$7.20	$4.25	$7.50	$3.50	$6.00	$7.00	$6.40	$10.00	$8.00	$6.00	$[illegible].50
930 lin. ft. excavation, Class B	3.50	5.70	3.15	6.50	3.50	5.00	10.00	4.00	3.66	7.70	6.00	[illegible].12
1,100 lin. ft. excavation, Class C	3.00	5.00	3.10	6.00	3.50	5.00	4.00	7.20	3.00	7.45	6.00	[illegible].02
350 cu. yds. excavation, Class D	2.00	4.00	3.00	2.00	3.00	5.20	3.00	3.75	2.00	2.00	2.00	[illegible].00
4,500 cu. yds. rock excavation at additional price	3.00	1.80	3.20	3.00	3.00	3.00	3.00	3.50	3.50	3.50	3.00	[illegible].40
3,025 lin. ft. refilling and embanking	.75	1.20	1.55	.25	2.50	1.25	2.00	2.35	.30	1.80	1.00	.72
15 M. ft. B. M. timber and lumber	40.00	50.00	50.00	30.00	40.00	40.00	40.00	55.00	45.00	40.00	40.00	[illegible].00
2,400 cu. yds. concrete masonry	6.00	6.00	6.50	6.00	6.00	7.25	6.00	5.35	6.50	6.00	10.00	[illegible]
25 cu. yds. reinforced concrete masonry	6.00	8.00	10.00	7.00	8.00	10.00	10.00	7.00	10.00	6.50	14.00	[illegible].62
110 cu. yds. brick masonry	25.00	20.00	20.00	16.00	30.00	15.00	20.00	18.50	27.00	15.00	21.00	[illegible].64
100 cu. yds. dry rubble masonry and paving	1.00	4.00	3.00	2.00	2.00	3.00	4.00	3.35	3.00	2.00	2.00	[illegible].60
2,000 lin. ft. vitrified pipe 8 ins. or less	.30	.50	.40	.20	1.50	.30	.60	.30	1.00	.25	.25	.35
350 lin. ft. vitrified pipe 12 ins.	.37	1.00	.65	.50	2.00	1.00	1.00	1.00	1.00	.40	.40	.43
50 lin. ft. vitrified pipe 18 ins.	.50	2.00	1.40	1.50	3.00	2.00	2.00	2.00	2.00	1.00	.60	.80
3,200 bbls. Portland cement	1.75	1.60	1.60	1.55	2.00	1.60	1.40	1.65	1.75	1.50	1.30	[illegible].53
190 tons straight c.-i. pipe	29.00	40.00	40.00	40.00	40.00	40.00	31.00	40.00	45.00	30.00	45.00	[illegible].00
3 tons specials and other cast iron not in Item 16	40.00	100.00	100.00	60.00	65.00	100.00	65.00	65.00	75.00	70.00	80.00	[illegible].00
1,000 lbs. steel for reinforcing concrete	.04	.04	.04	.05	.06	.10	.06	.05	.05	.05	.04	.03
1,400 lbs. galvanized wrought iron and steel	.05	.15	.07	.05	.20	.10	.10	.20	.15	.06	.10	.05
700 lbs. bronze	.30	.50	.75	.20	.30	.50	.40	.25	.40	.20	.20	.23
Totals	$58,178	$63,935	$64,481	$65,511	$69,908	$69,931	$71,635	$72,859	$73,121	$73,698	$76,625	$[illegible],764

MISCELLANEOUS CONTRACTS.

IRON PIPE.—New York, N. Y.—Bids will be received by Kingsley L. Martin, Comr. of Bridges, until 2 p. m., June 5, for furnishing and delivering pipe, pipe fittings and material for the Williamsburg Bridge.

•DREDGING.—Oswego, N. Y.—Bids were received as follows on May 15 by Capt. W. L. Guth[illegible], Corps Engrs., U. S. A., Oswego, for dredging at Ogdensburg and Charlotte Harbor, [illegible] Y.: Ogdensburg Harbor: (a) Schedule [illegible] 475,000 cu. yds., scow measurement; (b) Schedule B, 590,000 cu. yds. scow measurement; (c) Schedule C, 710,000 cu. yds., scow measurement; (d) totals: Duluth Marine Contracting Co., Duluth, Minn., (a) 14 cts. per cu. yd., (d) $66,300, (b) 13½ cts., (d) $7[illegible], (c) 13 cts., (d) $92,300 (recommended for acceptance); D. C. Stephens, Buffalo, N. Y., (c) 14 3-10 cts., (d) $101,530; Daly & Hannan Dredging Co., Ogdensburg, N. Y., [illegible] 16 cts., (d) $76,000, (b) 18½ cts., (d) $1[illegible]50, (c) 19½ cts., (d) $138,450; Buffalo Dredging Co., Buffalo, (a) 17 4-10 cts., [illegible] 82,650, (b) 21½ cts., (d) $126,850, [illegible] 2½ cts., (d) $159,750; Great Lakes Dredge & Dock Co., (a) 20 cts., (d) $95,000. Charlotte Harbor: (a) 160,000 cu. yds., scow measurement; (b) totals: Buffalo Dredging Co., (a) 16 4-10 cts. per cu. yd., (b) $2[illegible]40 (recommended for award); Daly & Hannan Dredging Co., (a) 17 5-10 cts., (b) $2[illegible]0; Great Lakes Dredge & Dock Co., Chicago, Ill., 20 cts., (b) $32,000.

•ROCK EXCAVATION. — Pennsylvania.—There are 100,000 cu. yds. of rock excavation, railroad work, located in Pennsylvania, suitable for small steam shovel plant or teams and cars. Address "F. B. 21," Engineering News, New York.

DREDGING.—Wilmington, Del.—Bids were received on May 15 by Maj. R. R. Raymond, Corps Engrs., U. S. A., for dredging in Appaquinimink Harbor: River & Harbor Improvement Co., Philadelphia, Pa., 12.8 cts.; Richards Dredging Co., Philadelphia, 13.8 cts.

DREDGING.—Wilmington, Del.—Bids were received as follows on May 18 by Maj. R. R. Raymond, Corps Engrs., U. S. A., for dredging in Copansey River: Rickards Dredging Co., Philadelphia, 12.4 cts.; American Co., Philadelphia, 14¾ cts.; River & Harbor Improvement Co., Philadelphia, 13.4 cts.

•DREDGING.—Baltimore, Md.—Bids will be received until 1 p. m., June 26, by Col. Thomas L. Casey, Corps Engrs., U. S. A., Baltimore, for dredging in Rockhall, Queenstown, Claiborne and Cambridge Harbors and Susquehanna, Chester, Choptank, Warwick, Pocomoke, La Trappe, Wicomico and Manokin Rivers, and Tyaskin Creek, Md.; Nanticoke River, Del. and Md., and Broad Creek River, Del.

•JETTIES, ETC.—Washington, D. C.—Bids were received as follows on May 20 by Lt.-Col. W. C. Langfitt, Corps Engrs., U. S. A., for constructing and revetting jetties and driving marking piles in James River, Va.: W. B. Bradley Co., Richmond, Va., $11,234; J. H. Boyd & Bro., Chester, Va., $14,248.

RENEWAL OF TRACK.—Norfolk, Va.—Bids will be received until 11 a. m., June 17, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for renewal of 40-ton locomotive crane track at the navy Yary here.

•BIG ISLAND, VA.—Bids will be received by the Bedford Pulp & Paper Co., Big Island, until 6 p. m., June 14, for the construction of concrete dike, tail race, excavation, raising concrete and timber dam, and reinforced-concrete floor construction. Specifications can be obtained by applying to the company, Big Island, or to the office of the Engineer, Hibbs Bldg., Washington, D. C. Plans are on file at Big Island and in the office of F. R. Weller, Engr.

•LOCK AND DAM.—Wheeling, W. Va.—Bids were received as follows on May 17 by Maj. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, for constructing Lock and Dam No. 20, Ohio River, near Belleville, W. Va.: Sheridan-Kirk Contract Co., Cincinnati, Ohio, $653,825; alternative bid, $655,367; Dravo Contracting Co., Pittsburg, Pa., $686,343 and $687,063; the T. A. Gillespie Co., Pittsburg, $748,041 and $753,491; Ohio River Contract Co., Evansville, Ind., $774,564 and $765,389.

DREDGING.—Jacksonville, Fla.—Bids were received as follows on May 12 by Capt. Geo. R. Spalding, Corps Engrs., U. S. A., Jacksonville, for dredging in St. Johns River, below Jacksonville: Bowers Southern Dredging Co., of Galveston, Tex., 10 4-10 cts. per cu. yd.; P. Sanford Ross, Jersey City, N. J., 15 cts; Coastwise Dredging Co., Norfolk, Va., 12¾ cts.; Atlantic, Gulf & Pacific Co., New York, 10 9-10 cts.; Home Dredging Co., Mobile, Ala., 14 cts. per cu. yd.; North American Dredging Co. of Texas, Galveston, 10 7-10 cts. per cu. yd.

✚EARTH WORK.—Vicksburg, Miss.—Bids have been opened by Capt. A. J. Woodruff, Corps Engrs., U. S. A., Vicksburg, for about [illegible]5,000 cu. yds. of earth work in the Lower Yazoo Levee District. The contract has been awarded to ROACH & STANSELL, Memphis, Tenn., at 10.98 cts. per cu. yd.

STONE.—New Orleans, La.—Bids were received as follows on May 15 by Lt. Col. Lansing H. Beach, Corps Engrs., U. S. A., for furnishing and delivering stone at South and Southwest Pass, for use in connection with maintenance of jetties and auxiliary works: (a) 10,000 cu. yds., price per cu. yd.; (b) totals: Oscar F. Barrett, Cincinnati, Ohio, (a) $3.45, (b) $34,500; Richard M. Mur[illegible]y, New Orleans, (a) $3.74, (b) $37,400; [illegible] C. Huthmacher, Grand Tower, Ill., (a) [illegible]75, (b) $37,500; Eskald & Alexander, New Orleans, (a) $3.79, (b) $37,900; A. J. Ter[illegible], Bessemer, Ala., f. o. b. cars New Orleans, $1.90 per ton of 2,000 lbs.; f. o. b. barge, New Orleans, $2.15 per ton.

•ROCK EXCAVATION.—Nashville, Tenn.—Bids were received on Mal 22 by Maj. William W. Harts, Corps Engrs., U. S. A., Nashville, for rock excavation at Tuscumbia Bar, near Sheffield, Ala. Only one bid was received, that of N. C. McGinnis, of [illegible]ement, Ill., at $3.35 per cu. yd. for rock excavation, and 50 cts. for earth excavation.

HARBOR IMPROVEMENT WORK.—Port Clinton, Ohio.—Bids will be received until June 7 by the County Commissioners, Port Clinton, it is reported, for dredging, furnishing, constructing and installing engines, pumps, building, etc., for the West Harbor improvement. F. H. Suhrbier is County Surv.

•TOWBOAT.—Cincinnati, Ohio.—Bids will be received until 2 p. m., June 23, by Maj. H. Jervey, Corps Engrs., U. S. A., Cincinnati, for constructing and delivering the steel or steel and iron hull stern-wheel towboats "Miami," "Guyandot" and "Scioto."

BREAKWATER, ETC.—Cleveland, Ohio.—Bids will be received until 10 a. m., June 26, by Col. John Millis, Corps Engrs., U. S. A., Cleveland, for constructing breakwaters and removing breakwater at Conneaut Harbor, Ohio.

✚COAL HANDLING EQUIPMENT, ETC.—Akron, Ohio.—The Colonial Salt Co. will install a complete coal storage system with coal handling equipment and suction ash-handling apparatus. The contract has been awarded to the GUARANTEE CONSTRUCTION CO., 90 West St., New York.

DREDGING.—Detroit, Mich.—Bids were received on May 15 by Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, for dredging Clinton River. The Muir-O'Sullivan Dredge & Dock Co., Port Huron, Mich., submitted a bid of 35 cts. per cu. yd. place measurement.

•DREDGING.—Chicago, Ill.—Bids will be received until 10 a. m., June 3, by Lt. Col. George A. Zinn, Corps Engrs., U. S. A., Chicago, for dredging in Michigan City Harbor, Ind. Advertised last week.

DREDGING.—Chicago, Ill.—The Great Lakes Dredge & Dock Co., of Chicago, has been recommended for award of contract by Lt. Col. George A. Zinn, Corps Engrs., U. S. A., for dredging in Indiana Harbor, Ind., at the following prices: 54,000 cu. yds., between piers, 19¼ cts. per cu. yd., place measurement; total, $10,665; 181,000 cu. yds. dredging in Lake, scow measurement, 25 cts.; total, $45,275. Grand total, $55,940.

•CHANNEL EXCAVATION.—Chicago, Ill.—Bids were received on May 18 as follows by I. J. Bryan, Clk. Sanitary District of Chicago, American Trust Bldg., Chicago, for excavation and collateral work on Contract Section 3 of the Calumet Sag Channel. The approximate quantities are: 325,000 cu. yds. of glacial drift, 197,000 cu. yds. of rock excavation, 183,500 sq. ft. of channeling, 7,500 cu. yds. of concrete retaining wall, 11,400 sq. yds. of riprap slopes: S. R. H. Robinson & Son Contracting Co., St. Louis, Mo., $324,580; Foley & Gleason Co., Aitkin, Minn., $348,630; Robert Grace Contracting Co., Cleveland, Ohio, $354,240; John Marsch, Chicago, $355,115; John J. McCaughey, Chicago, $384,470; Shnable & Quinn, Chicago, $384,799; Marquette Construction Co., Chicago, $416,787; National Contracting Co., Chicago, $431,825.

DITCH.—New Ulm, Minn.—Bids will be received until May 27 by Louis G. Vogel, County Audr., New Ulm, for the construction of Brown County Ditch No. 18. The following tile will be required: 2,000 ft. of 6-in., 7,959 ft. 7-in., 1,400 ft. 8-in., 800 ft. 10-in., 2,500 ft. 12-in., 600 ft. 14-in. and 2,680 ft. 15-in. Bids may be submitted on either clay or cement tile; also an open outlet ditch 1,320 ft. long, 4 ft. wide at bottom. C. N. Robertson, of Sleepy Eve, Minn., is Engr.

•CANAL.—St. Paul, Minn.—Bids will be received until 2 p. m., June 19, by Maj. Francis R. Shunk, Corps Engrs., U. S. A., St. Paul, for the construction of a canal between Lake Winnibigoshish and Leech Lake, headwaters of the Mississippi River.

DRAINAGE.—Billings, Mont.—Bids will be received soon for the construction of the Hulling drain. The Gerharz Engineering Co., is Engr., Billings.

DITCH.—Paragould, Ark.—The county proposes to construct a ditch to cost about $250,000. J. D. Mitchell, of Rector, and C. E. Waddell, of Paragould, are Engrs.

CAST IRON.—San Diego, Cal.—Bids will be received by the Department of Finance, Ways and Means, until 11 a. m., May 29, for furnishing cast iron to the city. Percival E. Woods is Supt.

SEAWALL.—Coronado, Cal.—Plans have been completed by A. Ervast, City Engr., for a granite or concrete wall four feet high along Dream Front Boulevard. Estimated cost, $10,000.

DREDGING.—Belleville, Ont.—Bids will be received until 4 p. m., May 26, by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., for dredging required here.

DREDGING.—Ottawa, Ont.—Bids will be received until 4 p. m., May 31, by L. K. Jones, Secy. Dept. Railways and Canals, Ottawa, for dredging Murray Canal.

✚PLAZA.—Ottawa, Ont.—The Department of Public Works has awarded the contract for the construction of a plaza between Dufferin and Sappers' Bridges, Ottawa, to JOHN O'TOOLE and WILLIAM McGILLIVRAY, of Ottawa.

HARBOR IMPROVEMENTS.—Port Colborne, Ont.—Bids will be received by L. K. Jones, Secy. Dept. Railways and Canals, Ottawa, until May 31, for improvements in harbor. Plans, etc., on application to the Department, Ottawa, or Superintending Engr., St. Catharines.

PIER EXTENSION.—Sault Ste. Marie, Ont.—Bids will be received until June 6, by L. K. Jones, Secy. Dept. Railways and Canals, Ottawa, for the construction of an extension to the north mooring pier at upper entrance. Plans, etc., on application to the Department, Ottawa, or Engineer-in-Charge, Sault Ste. Marie.

✚DREDGING. — Cuba. — The Cuban Ports Improvement Syndicate, T. L. Huston, Pres., has sublet, it is reported, the entire work of dredging at Havana, Guantanamo, Santiago, Cienfuegos, Cardenas, Malanzas and Esperanza to MICHAEL J. DADY, 350 Fulton St., Brooklyn, N. Y. The contracts aggregate $7,000,000, and were signed on May 18, it is stated.

For other Proposal Advertisements see pages
49, 50, 52, 53, 54
of Advertisements and Construction News, page 256

PAVING.

Chattanooga, Tennessee.

Sealed proposals will be received until 1.00 P. M., June 15th, 1911, by the Hamilton County Road Commission, Chattanooga, Tennessee, then publicly opened, for improving Main Street (Montgomery Avenue) between the Chattanooga Corporation Line at East End Avenue and the Ringgold Road, Ridgedale, Tennessee, for the construction thereon of a pavement of the type to be selected by the Road Commissioners, being either vitrified brick, bituminous concrete or bituminous macadam, with concrete curb and gutters.

Approximately 32,000 sq. yds. of pavement and 19,000 lineal feet of concrete curb and gutter will be built, with an additional amount of approximately 75,000 sq. yds. of pavement and 42,000 lineal feet of concrete curb and gutter to be built on the streets authorized and to be let at a later date.

Plans may be seen, and Specifications and Blank Forms of Proposal can be obtained at the office of the Road Commission, at Chattanooga, Tennessee. Proposals must be accompanied by a certified check for Five Hundred ($500.00) Dollars, drawn to the order of Joe V. Williams, County Judge of Hamilton County, Chattanooga, Tennessee.

The right is reserved to reject or accept any proposal in part or as a whole.

HAMILTON COUNTY ROAD COMMISSION,
E. D. BASS, Chairman.

STATE STREET PAVING.

Bridgeport, Conn.

Sealed proposals will be received at the office of the Paving and Sewer Commission, Room 22, City Hall, Bridgeport, Conn., until Monday, June 5, 1911, at 8 o'clock P. M., for furnishing and laying about 23,680 square yards of wood block paving on State Street, in said city, from Broad Street to Fairfield Avenue. Separate proposals are required for the wood block, and for the furnishing of all other materials, and labor, except the wood block.

Specifications and blank forms for bidding may be obtained from Bernard Keating, Secretary, Room 22, City Hall.

The Commission reserves the right to reject any or all bids.

THE PAVING AND SEWER COMMISSION,
By BERNARD KEATING, Secretary.

PIPE, VALVES, ETC.

Evansville, Ind.

Sealed bids will be received by the City of Evansville, Indiana, up to 10 A. M., June 17th, 1911, at the office of Alvord & Burdick, Engineers, No. 1417 Hartford Bldg., Chicago, Ill., for furnishing the following material: Approximately 250 tons C. I. Pipe and Specials; 30 Valves, from 4" to 30" in size; One 24" Venturi Meter and one Pitometer, in accordance with the plans and specifications of the Engineers.

The right is reserved to reject any and all bids.

BOARD OF WATER COMMISSIONERS,
HENRY L. HEILMAN, Secy.
JOHN W, ALVORD,
CHAS. B. BURDICK,
Engineers.

SUB-CONTRACTORS.

100,000 cubic yards rock excavation, railroad work, located in Pennsylvania, suitable for small steam shovel plant or teams and cars.

This is a nice piece of work at good prices and firms bidding must come well recommended and able to give bond.

Address "F. B. 21," Engineering News, New York City.

U. S. ENGINEER OFFICE, Boston, Mass., May 22, 1911.—Sealed proposals for dredging in Weymouth Back River, Mass., will be received here until 12 m., June 22, 1911, and then publicly opened. Information on application. FREDERIC V. ABBOT, Col. Engrs.

U. S. ENGINEER OFFICE, 815 Witherspoon Building, Philadelphia, Pa.—Sealed proposals for dredging in Delaware River, on Tinicum and New Castle Ranges, will be received here until 12 noon, June 24, 1911, and then publicly opened. Information on application. HERBERT DEAKYNE, Major, Engrs.

RESERVOIR.

Kenton, Ohio.

Sealed bids will be received by the Director of Public Service at the office of said director until 12 o'clock noon, June 6th, 1911, for furnishing the materials and labor for constructing a reinforced concrete reservoir, approximately two million gallons capacity, also for the building of additions and making alterations to the pumping station at the City Water Works Plant, according to plans and specifications on file in said office.

Each bid must be accompanied by a bond in the sum of $500.00, or a certified check on some solvent Kenton, O., bank, as a guaranty that if the bid is accepted, a contract will be entered into and its performance properly secured.

By order of the Director of Public Service,

G. S. BINCKLEY,
Clerk.

Kenton, Ohio, May 18, 1911.

SEWER.

Johnstown, N. Y.

Sealed proposals for the construction of a Trunk Sewer in or along the Cayadutta Creek, from Market Street to Main Street, will be received by the undersigned up to the 12th day of June, 1911, at 7.30 o'clock p. m., at which time they will be publicly opened and read for the following estimated quantities:

240 lin. ft. 24" vitrified tile sewer.
510 lin. ft. 24" iron pipe sewer.
609 lin. ft. 30" vitrified tile sewer.
1,030 lin. ft. 30" iron pipe sewer.
122 lin. ft. in 11 brick manholes.
700 cu. yds. slate rock excavation.

Bidders are required to submit a certified check of $500.00 with the bid.

Plans, profiles and specifications may be seen, and blank forms and all necessary information obtained at the office of the City Engineer.

GROVER E. YERDON,
City Clerk.

WATER DISTRIBUTION SYSTEM.

Newport, N. Y.

Sealed proposals for construction of a Water Distribution Main and Distribution System for the Village of Newport, N. Y., will be received until the 29th day of May, 1911, at the office of the Village Clerk until 10 o'clock a. m. of that day, at which time and place all proposals will be opened and read.

Each proposal shall be accompanied by certified check or New York draft payable to the Village Treasurer for the sum of one thousand dollars ($1,000.00), and the successful Contractor for the construction of the system will be required to give a bond with some satisfactory surety in the penalty of 50 per cent. of the amount of the bid, both the form of the bond and surety to be satisfactory to the Board of Water Commissioners.

Plans, specifications, approximate quantities and proposal forms upon which the bids must be submitted, may be seen at the office of the Board of Water Commissioners.

The Board of Water Commissioners reserves the right to reject any or all bids.

All proposals shall be addressed "Board of Water Commissioners, Newport, N. Y.," and shall be endorsed with the name and address of the bidder, and be marked "Proposal for Water System."

All proposals must state the name and address of the proposed surety or sureties.

No proposal will be allowed to be withdrawn after it has been deposited with or received by the Board of Water Commissioners.

For all further particulars address the Secretary of the Board of Water Commissioners or the Engineers.

All proposals which do not contain prices for all the items which are called for in the form for proposals, or which are otherwise not in conformity with this notice, will be rejected.

Prices must be expressed in both words and figures.

The number of calendar days in which the work will be completed shall be stated by Contractor in his proposal.

VROOMAN and PERRY, Engineers.
MILLARD N. PEARCE,
JOHN T. DAVIS,
JOHN B. LANKTON,
FRED W. BEGENT,
Water Commissioners.
CHARLES L. FELLOWS, Secretary.

Dam, Head-Works, Canals, Tunnels, Etc., of the South San Joaquin Irrigation District.

Manteca, San Joaquin Co., Cal.,
May 16, 1911.

Sealed proposals or bids will be received by the Directors of the South San Joaquin Irrigation District at their office in Manteca, Cal., up to 10 o'clock A. M. of the 19th day of June, 1911, for furnishing the materials for and constructing

Contract-Division 1
" " 2
" " 3
" " 4
" " 5
" " 6

of their Irrigation System; and said Proposals or Bids will be opened and read in public meeting at said office immediately thereafter.

Contract-Division 1 and Contract-Division 2 will be let jointly by the South San Joaquin and Oakdale Irrigation Districts, and will be paid for as follows:

	By S.S.J. Dist.	By Oak. Dist.
Contract-Division 1	50%	50%
Contract-Division 2	about 81%	about 19%

Contract-Divisions 3, 4, 5 and 6 will be let and paid for solely by the South San Joaquin Irrigation District.

Copies of the Contract-Forms, Specifications, General Plans, and Forms of Bids may be seen and further information obtained at the following places:

Office of the Directors, Manteca, Cal.
Office of the Chief Engineer, 1315 Humboldt Bank Bldg., San Francisco, Cal.
Office of Engineering News, New York and Chicago.
Office of Engineering-Contracting, Chicago.

Proposals will be made upon Forms provided therefor, and only such proposals will be considered as are complete, in proper form, comply with the requirements herein stated, and are offered by parties of known reputation, experience and responsibility.

Proposals for the construction of any or all of the six Contract-Divisions will be received from any bidder; but the proposal for each Contract-Division must be made separately, upon a separate and distinct Form or Blank.

Each bidder will be required to deposit with his proposal in the office of the Directors, as security for the execution by him (if his bid be accepted) of the contract and the giving of the required bond within fifteen (15) days after due notice of the acceptance of his bid, certified checks payable to the order of J. S. Moulton, Treasurer, for the following amounts:

With the Proposal for Contract-Division 1, a certified check for..	$5,000
With the Proposal for Contract-Division 2, a certified check for..	$1,000
With the Proposal for Contract-Division 3, a certified check for..	$1,000
With the Proposal for Contract-Division 4, a certified check for..	$1,000
With the Proposal for Contract-Division 5, a certified check for..	$1,000
With the Proposal for Contract-Division 6, a certified check for..	$1,000

The Bidder to whom the Contract for any Contract-Division is awarded will be required to give an approved bond, with two approved sureties or an approved Surety Company, for twenty-five per cent. (25%) of the amount of his contract, conditioned for the faithful performance and completion of the Contract.

Contracts will be awarded to the lowest responsible bidder—or if considered by the Directors for the interest of the District all bids may be rejected. Should bids for all six of the contracts be received from a single bidder and should the aggregate amount of such bids be less than the sum of the lowest bids received from separate bidders; then in such event preference will be given by the Directors in awarding the contracts to the single bidder on all six contracts.

The various contracts must be entirely completed at dates not later than the following:

Contract-Division No. 1,	March	31,	1912.
" " " 2,	"	1,	1913.
" " " 3,	"	1,	"
" " " 4,	"	1,	"
" " " 5,	"	1,	"
" " " 6,	"	1,	"

And Bids will be received contemplating the completion of the work of the various contracts at above dates.

The works to be constructed under these Contracts are as briefly described below:

CONTRACT-DIVISION 1.

A concrete Diversion-Dam about 450 ft. long on crest and of about 75 ft. maximum height.

Concrete Head and Regulating-Works to Canal.

The quantities are shown in detail in the Specifications; and are very roughly as follows:

Concrete, about...........	8,400 cu. yds.
Earth & Rock Excavation, about	12,000 cu. yds.
Steel in Concrete, about....	55 tons
Etc., Etc.	

The total amount of this Contract will be roughly about $100,000.

CONTRACT-DIVISION 2.

A Conduit about 3.6 miles long of open canal and tunnels, along the canyon of the Stanislaus River, mainly slate rock excavation on steep side-slopes. Two tunnels about 1,000 ft. long each, one about 2,900 ft. long, remainder open canal. Entire length lined with concrete.

About 112,000 cu. yds. of Excavation in open canal; etc., etc.

Total amount of this Contract, about $300,000.

CONTRACT-DIVISION 3.

A conduit about 2.7 miles long of open canal and tunnels, in foot-hills, mainly hard-pan excavation in deep cuts. Four tunnels only 980 ft. in aggregate length, remainder open canal. Entire length lined with concrete.

About 180,000 cu. yds. Excavation in open canal, etc., etc.

Total amount of this Contract, about $200,000.

CONTRACT-DIVISION 4.

A Flume about 14½ ft. wide by 9 ft. high in inside dimensions and about 2,000 ft. long, carried on a trestle or piers of about 65 ft. maximum height and about 38 ft. average height.

Bids are asked both on a Wooden and on a Reinforced-Concrete Structure.

The Wooden Structure would contain approximately:

190 M. ft. b. m. of Redwood Lumber.
430 M. ft. b. m. of Oregon Fir Lumber.
25,000 lbs. of Spikes, Bolts, etc., etc.
Etc., Etc.

and would cost roughly $30,000.

The alternative Reinforced-Concrete Structure would contain approximately 6,700 cu. yds. concrete, 200 tons steel bars, etc., and would cost roughly $80,000.

CONTRACT-DIVISION 5.

A conduit about 3.9 miles long, of open canal except one tunnel about 740 ft. long, in foot-hills, mainly hard-pan excavation, moderate cuts.

About 250,000 cu. yds. excavation, about 60,000 cu. yds. embankment. Tunnel and embankments (about 6,000 ft. of latter) lined with concrete.

Total amount of this Contract, about $175,000.

CONTRACT-DIVISION 6.

About 6.4 miles of open canal, no tunnels, in plain, no concrete-lining.

About 300,000 cu. yds. excavation, largely hardpan.

The amount of this Contract will be roughly $130,000.

Each of above Contract-Divisions contains auxiliary structures such as Drainage-Culverts, Waste-Gates, Bridges, Drops, or Siphons, etc., etc.—all of which are shown with quantities in the Specifications and Contract-Drawings.

B. A. GOODWIN, Pres.,
E. N. PIERCE, Secy.,
Board of Directors, South San Joaquin Irrigation District.
EDWIN DURYEA, JR., M. Am. Soc. C. E.
Chief Engineer.

The South San Joaquin Irrigation District's System will be built by funds acquired by the sale of bonds. The District is organized and the bonds issued under the Wright-Bridgeford Act, a California Law governing the organization and operation of Mutual or Citizens' Irrigation Districts. Such Districts have the status of municipalities and are administered by a Board of Directors elected by the people. The districts have the power to issue bonds or to raise money by direct taxation. The bonds are a lien upon the lands. By the law, such District Bonds are 5 per cent., 30-year bonds, redeemed from the 21st to the 30th years. The bonds of the South San Joaquin Irrigation District have been subjected to attack by a Tax-payer's suit in which the suit was won by the District, and the organization and bonds were decided by the Court to be lawful in all respects. The bonds are legal investments for banks, trust-companies and State School Funds and have the same legal standing in California as other Municipal Bonds.

By the law, such District Bonds cannot be sold for less than par, and cannot be used in (direct) payment for construction-work. Under present conditions it is very difficult to sell 5 per cent. irrigation-bonds at par; hence it will be necessary for the successful bidder on any Division to finance his Contract by finding a bidder for the bonds at par up to at least the amount of his contract—and perhaps to compensate for a reasonable discount in the bonds by increasing his unit-price bids by a corresponding proportion.

The area of the South San Joaquin Irrigation District is 71,050 acres. The total bond-issue authorized is $1,875,000, or $26.40 per acre. The assessed value of the land alone, exclusive of all improvements, is $2,848,997, or $40.10 per acre. The present market value of the land, exclusive of improvements, averages $85 per acre, or amounts to $6,039,000, for all the lands of the District; and the market value will be two to three times as great as soon as the irrigation-system is completed and the land irrigated.

The present population of the District is about 3,500, and the value of its agricultural and viticultural products during 1910 was at least $2,500,000.

ASPHALT CONCRETE RESURFACE.

Camden, N. J., May 22, 1911.

Bids are invited for resurfacing the Camden and Westfield Turnpike in accordance with the plans and specifications on file in the office of State Commissioner of Roads at Trenton, N. J.; also at the office of the Clerk of the Board of Chosen Freeholders at Camden, N. J.

Material to be applied by the ton, railroad weight to govern.

Estimate of quantities: Asphalt concrete, 4,065.32 tons, Type B; 1½-inch stone, 3,677.15 tons; gravel, 3,465 cu. yds.

Bids will be received, immediately opened and publicly read at the Court House in Camden on Wednesday, June 14, 1911, at 11 a. m.

JOHN PRENTICE, Director.
J. J. ALBERTSON, County Engineer.

RESURFACING.

Altoona, Pa.

Sealed proposals will be received by the Board of Public Works, of the City of Altoona, Pa., and publicly opened at 3 o'clock, Friday afternoon, June 2, 1911, for resurfacing the following highways in the City of Altoona, Pa.:

Old Paving.	Location.	Sq. Yds.
Sheet *)	6th Avenue, 2- 4 Str.	2,100
Sheet	6th Avenue, 4-12 Str.	10,490
Sheet *)	6th Avenue, 12-15 Str.	3,370
Sheet	7th Avenue, 2-17 Str.	20,160
Sheet *)	8th Avenue, 7-15 Str.	8,210
Block *)	8th Avenue, 15-17 Str.	1,160
Block	8th Avenue, 17-24 Str.	8,880
Brick *)	9th Street, 11-Howard	2,100
Sheet	10th Alley, 14-15 Str.	760
Sheet *)	11th Avenue, 11-13 Str.	2,240
Block *)	11th Street, 11-Chestnut	1,240
Block	11th Alley, 11-12 Str.	700
Sheet *)	12th Avenue, 11-12 Str.	1,000
Sheet *)	12th Avenue, 13-15 Str.	2,580
Sheet	13th Avenue, 11-12 Str.	1,330
Sheet	14th Street, 10-11 Ave.	830
Sheet *)	Broad Avenue, Union-27	8,480
Block *)	Chestnut Ave., 7-11 Str.	3,660
Sheet	Margaret Ave., 17-Union	3,300
Brick *)	Union, Culvert-Broad	2,680

Note.—In the column headed Old Paving, Sheet indicates Sheet Asphalt. Block indicates Asphalt Block, and Brick indicates Brick Paving. The *) indicates streets occupied by street-car tracks.

All bids must be strictly in accordance with instructions to bidders and specifications, which may be examined at the office of the City Engineer, and upon blanks furnished for that purpose by the City Engineer, and be accompanied by a certified check for five (5) per cent. of the bidding price, or the same amount in cash, to [illegible] ntee the signing of the contract, or [illegible] ts and the furnishing of required [illegible] f contracts be awarded to the b[illegible]

Bids to be addressed [illegible] esident Board of Public Works," [illegible] arked "Proposals for Resurfacin[illegible] must reach the City Engineer's [illegible] before 3 o'clock, Friday afterno[illegible] e 2, 1911.

The Board reserves the ri[illegible] reject any or all bids.

W. M. C. CRAINE, [illegible]
WM. T. McCONNEL[illegible]
HARRY E. GAMBLE, [illegible]
Board of Pub[illegible] rks.

U. S. ENGINEER OFFICE, Custom House, Baltimore, Md[illegible] 1911.—Sealed proposals for dr[illegible] Rockhall, Queenstown, Claib[illegible] Cambridge Harbors, and Sus[illegible] Chester, Choptank, Warwick, [illegible] La Trappe, Wicomico and Man[illegible] ers and Tyaskin Creek, Md.; [illegible] River, Del. and Md., and Bro[illegible] River, Del., will be received [illegible] office until one o'clock p. m., [illegible] 1911, and then publicly opened. [illegible] mation on application. THO[illegible] CASEY, Col. Engrs.

U. S. ENGINEER OFFICE, [illegible] R. I., May 20, 1911.—Sealed prop[illegible] dredging in Providence River [illegible] bor, R. I., will be received here [illegible] p. m., June 20, 1911, and then [illegible] opened. Information furnished [illegible] plication. FREDERIC V. ABBO[illegible] Engrs.

For Additional
PROPOSAL
Advertisements
See page 255

Situations Wanted

Mechanical and Electrical Engineers

MECHANICAL ENGINEER, Cornell, '0[illegible], age 32, now mechanical engineer of large industrial plant, wishes new engagement June 1. Thoroughly experienced in power plant and general construction and repair work; capable business manager, shop superintendent or construction engineer. Address "G. B. 21," Engineering News, New York. 21-2t

Situations Open
(Or Vacant)

WANTED—College graduate, with some experience in design of R. R. bridges and masonry; salary, $75; state in full, age, education and experience; enclose sample of lettering (vertical preferred). ENGINEER, 367 South Station, Boston, Mass. 15-1t

For Sale

BIG BARGAIN

A NO. 1 CONDITION.

2 Standard National Hoisting Engines, 7¼ × 10" double cylinder, double friction drum, with engine and boiler complete and swinging gear.
2 Derricks—30' mast—one 50' boom made of 10 × 12" yellow pine—one 60' boom made of 14 × 14" Oregon fir; all fittings complete.
2,400' ⅝ crucible cable.
1—40-HP. open locomotive type boiler, water front, mounted on skids, with 30' stack; all fixtures, including injectors.
4 Sullivan Drills, 3 ⅝ U. H., complete with tripods.
2—No. 2B Little Giant Rand Drills.

FOYE ROOT CO.,
Ellenville, N. Y. 21-1t

Miscellaneous Wants

Technical Bureau

with Erecting Shop and Branches in the principal cities, wishes either to represent or handle entirely the product of responsible Works in Austria-Hungary and Germany.

The above firm has traveling Mechanical and Electrical Engineers in the field, and therefore desires to represent goods which can successfully compete.

Address ANNONCEN-EXPEDITION, RUDOLF MOSSE, H. Z., 960—W. T. 9361, Vienna, Austria. 21-1t